

EPA Region 5 Records Ctr.



308209

Litigation Report, United States
Smelting Lead Refinery, Inc.
East Chicago, Indiana Unpermitted
Discharges; Permit Violations

01

Reference #45

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

LITIGATION REPORT

A REPORT DOCUMENTING SERIOUS AND CONTINUING
VIOLATIONS OF THE CLEAN WATER ACT BY THE UNITED STATES
SMELTING LEAD REFINERY, INCORPORATED, EAST CHICAGO, INDIANA

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TABLE OF CONTENTS

	PAGE
I. INFORMATION IDENTIFYING THE DEFENDANT.....	1
II. SYNOPSIS OF THE CASE.....	2
III. STATUTORY AUTHORITY.....	3
A. Substantive Legal Requirement.....	3
B. Prior Legal Interpretations.....	4
C. Alternate Courses of Action.....	4
IV. DESCRIPTION OF DEFENDANT AND TECHNICAL DESCRIPTION OF POLLUTION SOURCE.....	7
A. Description of the Facility.....	9
B. Source of Pollution.....	9
C. Pollutants Involved; Environmental Harm.....	12
D. Available Control Technology..... (Remedial Action)	12
V. ADMINISTRATIVE AND ENFORCEMENT HISTORY (STATE AND FEDERAL).....	13
A. Prior Attempts to Obtain Compliance.....	13
B. Federal Enforcement.....	15
VI. REQUIRED ELEMENTS OF PROOF AND EVIDENCE.....	16
A. Elements of Proof.....	16
B. Evidence of Violation.....	17
C. Discovery.....	17
D. Evidence of Environmental Harm.....	17
E. Evidence Favorable to the Violator.....	18
F. Government Witnesses.....	18
G. Defense Witnesses.....	18
H. Resource Needs.....	18

	<u>Page</u>
VII. RELIEF REQUESTED.....	19
VIII. ANTICIPATED ISSUES.....	19
A. Possible Defenses.....	19
B. Equitable Arguments.....	20
C. Pending Related Administrative or Court Action.....	20
D. Practical Problems.....	20
IX. LITIGATION STRATEGY.....	21
A. Other Potential Defendants.....	21
B. Jurisdiction and Venue.....	21
C. Potential for Summary Judgment.....	21
D. Related Violations.....	21
E. Additional Compliance Mechanisms.....	22
F. Settlement Potential.....	22
X. INDEX OF ATTACHMENTS.....	23

I. INFORMATION IDENTIFYING THE DEFENDANT

A. Name

United States Smelting Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

Registered Agent

Donald J. Bidwell
5300 Kennedy Avenue
East Chicago, Indiana 46312

B. Type of Business

Operates a lead reclamation business using batteries and other waste materials containing lead in the extraction process

C. Judicial District In Which Defendant Is Located

United States District Court for the Northern District of Indiana.

D. Name And Address Of Defendant's Counsel

Unknown

II. SYNOPSIS OF THE CASE

United States Smelting Lead Refinery, Inc. (U.S.S. Lead) operates a plant in East Chicago, Indiana. The plant is a secondary lead refinery/smelter. U.S.S. Lead reclaims lead primarily from old automobile and truck batteries. This reclamation process results in the generation of a wastewater stream containing acids, lead, arsenic, sulfates, fluorides, and suspended solids. The process also uses a once through non-contact cooling water. The contaminated wastewater process stream is discharged to the East Chicago Wastewater Treatment Plant. The non-contact cooling water combines with plant

storm drain run-off and boiler water blowdown and is discharged to the Grand Calumet River (via a marsh), which is tributary to the Indiana Harbor Canal, tributary to Lake Michigan. About 15,000 gallons of non-contact cooling water alone are generated per day, along with an unspecified amount of storm water runoff and boiler blowdown.

A National Pollutant Discharge Elimination System (NPDES) permit, IN 0032425, was issued to U.S.S. Lead Inc. by the Indiana Stream Pollution Control Board (ISPCB) on June 15, 1975, expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiration date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. Therefore, from March 31, 1980 until the present, the U.S.S. Lead has continued to discharge without a valid permit.

Even assuming arguendo, that the defendant's expired permit was still in effect, a review of the Discharge Monitoring Reports (DMR's) submitted by the U.S.S. Lead indicates that the permittee has consistently exceeded the permit's effluent limits for maximum lead concentrations since September 1982, through and including June 1984. U.S. EPA compliance sampling inspections on January 10, 1984 and on April 9-10, 1984 have also found U.S.S. Lead to be violating the permit's effluent limits for maximum lead concentrations. Attachments 4 & 5)

The expired permit required U.S.S. Lead to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the

- 3 -

violations. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calumet River. The permit's discharge limitations also require U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984 U.S. EPA plant inspections indicate that the U.S.S. Lead sampling point is neither an accurate nor representative sampling location of the discharge. Both inspections found the current sampling point to be submerged below the receiving streams and influenced by runoff from adjacent landfill areas. According to the permit, the sampling point should not be influenced by either the receiving streams or runoff from adjacent landfill areas.

The State has failed to take appropriate enforcement action. Although the ISPCB initiated an enforcement proceeding against U.S.S. Lead on April 3, 1984, on June 14, 1984, the state continued the proceedings indefinitely. (Attachment 6) To our knowledge, the ISPCB has not undertaken any settlement negotiations. Accordingly, Region V submits that a Federal enforcement action should be instituted.

III. STATUTORY AUTHORITY

A. Substantive Legal Requirement

Section 301 of the Clean Water Act, as amended (CWA [33 U.S.C. § 1311], makes it unlawful to discharge pollutants in to the waters of the United States, except in conformance with

the terms and conditions of an NPDES permit properly issued pursuant to Section 402 of the Act.

Section 309 of the CWA, 33 U.S.C. § 1319, provides the authority to seek a preliminary or permanent injunction against violations of NPDES permit requirements as well as civil penalty assessment of up to \$10,000 per day of violation.

Section 309(b), 33 U.S.C. § 1319(b), vests jurisdiction of civil matters under the CWA in the United States District Court for the District in which the defendant is located, resides, or is doing business. The Defendant, U.S.S. Lead, is physically located within the jurisdiction of the U.S. District Court for the Northern District of Indiana.

Section 506, 33 U.S.C. § 1366, provides authority to the Department of Justice to bring the action on behalf of the Administrator, U.S. EPA. A draft Complaint is appended to this Report as Attachment 1.

B. Prior Legal Interpretations

The instant case involves an unpermitted discharge of toxic and non-toxic pollutants to navigable waters of the United States, in violation of 33 U.S.C. §1311(a). There are a number of reported judicial decisions which discuss issues which may arise in the instant case.

The case which has probably the greatest similarity with the instant case and which discusses the most potential issues is United States v. Earth Sciences, Inc., 599 F.2d 368 (10th Cir. 1979). That case involved unpermitted discharges from a gold leaching operation to a stream which was not used for navigation. The Tenth Circuit held that Congress intended to regulate waters

- 5 -

to the fullest extent of its constitutional powers, and that any discharge which could possibly impact navigable waters would be considered as a discharge to navigable waters as proscribed in the Act. The Court also held that the Act imposed strict liability, and that intent to violate the Act was not a requirement. Finally, the court held that EPA need not issue an Administrative Order or Notice of violation before filing a civil action, and that EPA could choose to enforce the requirements of the Act prospectively against a particular violator or punish the violator for past violations.

The issue of what constitutes navigable waters has been treated in other cases. Courts interpret the Act broadly to include any area which could potentially impact waters which are navigable in fact. In United States v. Phelps Dodge, 391 F. Supp. 1181 (D. Ari. 1975), the court found that a prohibited discharge could occur to dry arroyos if pollutants could possibly end up in a navigable body of water. In United States v. Texas Pipe Line Company, 611 F.2d 345 (10th Cir. 1979), the court held that a prohibited discharge could occur to an unnamed tributary of a navigable water, especially if flow from the tributary could occur during rainfall.

Intent has been held not to be a requirement for violation of the Act. See United States v. Bradshaw, 541 F. Supp. 884 (D. Md. 1982). In United States v. Frezzo Brothers, 546 F. Supp. 713 (E.D. Pa. 1982), a United States District Court held that it was not necessary for the government to prove that the defendant

specifically intended to violate the statute, even in a criminal case. The government need only prove that the defendant acted willfully or negligently, and that it intended to do the acts for which it was convicted. As demonstrated in Section III of this Report, above, U.S. EPA is able to make a prima facie case under the CWA for Permit violations. In the case at hand, U.S.S. Lead was properly issued NPDES Permit No. IN0032425 effective June 15, 1975. This permit expired on March 31, 1980. Attachment 2. U.S.S. Lead failed to submit a reapplication until September 27, 1982. U.S.S. Lead's continued discharge of pollutants after March 31, 1980, is a prima facie violation under Section 301 of the CWA, 33 U.S.C. §1311. In addition, the information presented in Section IV of this Report, supra, documents past violations of the U.S.S. Lead's expired NPDES permit. Because the CWA is a strict liability statute, the government need only demonstrate the existence of a violation, and not environmental damage, injury, or harm.

C. Alternate Courses of Action

While EPA has authority to issue an Administrative Order rather than filing a civil action, Region V believes that a civil action for injunctive relief and penalties is appropriate for a number of reasons. First, an Administrative Order could not be used for collection of penalties. Assessment of penalties is highly appropriate in this case, due to the long-standing nature of U.S.S. Lead's unpermitted discharge, as well as the potential threat to the environment caused by U.S.S. Lead's excessive discharge of lead.

Second, because U.S.S. Lead is discharging toxic pollutants which may have already adversely impacted the receiving water, it is imperative to place U.S.S. Lead on a judicially enforceable schedule for coming into compliance as expeditiously as practicable.

Another alternative action is to reissue the permit. However, this is an unacceptable solution because it would not address U.S.S. Lead's failure to apply for a new permit in a timely fashion. Also, under the terms and conditions of a new permit, U.S.S. Lead would still continue to violate the effluent guidelines for lead.

The most viable alternative is to file a civil action. The filing of a civil action would enable the EPA to collect civil penalties and hopefully to negotiate a consent decree. A civil action for injunctive relief and civil penalties would provide the necessary deterrent to abate this potential threat to public health as soon as possible. Issuance of an administrative order would only delay the process.

IV. DESCRIPTION OF DEFENDANT AND TECHNICAL DESCRIPTION OF POLLUTION SOURCE

U.S.S. Lead Refinery Incorporated, East Chicago, Indiana is located in northwest Indiana approximately 25 miles from downtown Chicago, Illinois. The facility is discharging a combination non-contact process cooling water, boiler blowdown and storm water stream into the Grand Calumet River, tributary to the Indiana Harbor Canal, tributary to Lake Michigan.

The pollution source from the defendant is controlled by a National Pollutant Discharge Elimination System (NPDES) permit, IN 0032425, which was issued to U.S.S. Lead on June 15, 1975,

expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiration date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. From March 31, 1980 until the present, U.S.S. Lead continues to discharge pollutants without a permit.

The expired permit had a maximum total lead discharge limit of 0.2 mg/l to be monitored on a weekly grab basis. All of the DMR's submitted by U.S.S. Lead between September 1982 through and including June 1984 showed violations of the effluent limits for lead. The U.S. EPA compliance sampling inspections on January 10, 1984 and April 9-10, 1984 indicate the discharge lead concentration to be respectively, 1.43 mg/l, and 4.01 mg/l.

The expired permit required the permittee to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the violation. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit further required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calumet River. The permit's discharge limitations also required U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984, U.S. EPA plant inspections indicate that contrary to this permit requirement the U.S.S. Lead sampling point is neither an accurate nor representative sampling location of the discharge. Both the January and April 1984 U.S. EPA inspections indicate that the current

- 9 -

U.S.S. Lead sampling point can be influenced by runoff from a battery storage area, runoff or leaching from an adjacent slag-filled area, boiler blowdown, or during low flow, leaching from sediments in the discharge area.

The flow measurement for the discharge is based only on an estimate of the process cooling water. Accordingly, the flow measurement calculations do not account for water due to storm drain runoff or inflow, that is infiltrating to the drainage system, or boiler blowdown.

A. Description of the Facility

U.S.S. Lead is located at 5301 Kennedy Avenue, East Chicago, Indiana 46312, phone number 219/397-1010; Mr. Donald J. Bidwell is listed as the Vice-President, General Manager of the company. The facility has annual sales of \$9-10 million; employs approximately 110 people; has about 70,000 square feet of floor space; and is owned by Sharon Steel Corporation. Sharon Steel Corporation's address is P.O. Box 291, Sharon, PA 16146; phone number 412/981-1375. Sharon Steel Corporation is in turn owned by the NVF Company, Yorklyn Rd., Yorklyn, Delaware 19736; phone number 302/239-5281. The NVF Company employs approximately 6,150 people and has assets of \$5,000,000,000.

B. Source of Pollution

The facility is a secondary lead smelter using lead from old automobile and truck batteries and industrial lead scrap as it's raw material.

The process subdivides each battery into it's primary 3

- 10 -

components (i.e., acid, lead cell, and casings). Then, each separate component is in turn handled as follows:

1. The acid component is treated in a two stage system to remove lead and to control pH; the first stage settles out the lead; while the second stage adds sodium hydroxide to the acid to neutralize it to a pH around 7.0. The recovered lead is further processed via a mechanical and chemical operation which produces a high grade of reusable lead ore and an acidic sludge. The sludge is disposed of properly under RCRA as a hazardous waste.

2. The lead battery cells are removed and sent to the plant's blast furnace (according to a March 1984 Air Compliance inspection, the plant is in compliance).

3. The battery casings are separated by type, i.e., plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time. Both the January and April 1984, U.S. EPA inspections report that there may potentially be a problem from runoff due to this storage. During a forthcoming inspection, scheduled for later this year, samples can be obtained of the soil and surface waters in the battery storage area. The results from these samples can then be used to determine the extent of the potential problems which U.S.S. Lead could be asked to correct via modification of the relief sought.

- 11 -

Wastewater from the acid treatment system is discharged to the East Chicago WWTP. No adverse impacts from this discharge have been reported.

According to the plant engineer, Mr. R.D. Steels, discharge from outfall 001 consists of non-contact cooling water, storm water drains, and boiler blowdown. Casting house cooling water and storm drains combine with boiler house storm drains. The water then combines with cooling water from the furnace and is discharged without any treatment at discharge 001.

The facility's permit which expired in March 1980, required: flow measurement (when sampling); daily 24-hour composite sampling for total lead, arsenic, sulfate, fluoride, and total suspended solids; and a daily grab sample for pH. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility did not report any Effluent Monitoring Data between March 1981 and August 1982.

The analytical results of the samples taken during both the January 10 and April 9-10, 1984 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.01 mg/l. DMR's submitted by the facility show they exceeded the permit limits for lead during the months of May 1983 thru June 1984 inclusive.

- 12 -

The facility collects samples from outfall 001 in the channel after the water has left the discharge pipe. This sampling point could be influenced by run-off from the battery storage area, run-off or leaching from an adjacent slag filled area, boiler blowdown, or at low flow, the discharge channel sediments. The samples taken during the January 10th survey are from this sample point. The samples taken during the April 9-10th survey are from a man hole upstream of the discharge pipe and accurately reflect what is in the discharge pipe. (Attachments 4 and 5)

C. Pollutants Involved; Environmental Harm:

The serious and continuous level of lead discharged into the Grand Calumet River is causing irrefutable damage to the aquatic life in the vicinity of the U.S.S. Lead facility.

Standard acute data for lead on freshwater fish and invertebrate species, shows both acute and chronic toxicities on these groups. Freshwater algae are affected by high concentrations of lead. Delayed development, suppressed reproduction and inhibition of growth rate among fish, crab, polychaete worm and plankton are also caused by lead. Lead in man has been shown to cause adverse carcinogenic, tetratogenic, mutagenic, reproductive, renal, and cardiovascular effects.

D. Remedial Action

The facility should isolate all of its once through cooling lines from any process contamination. Accurate total flow measurements should be made of the discharge. The discharge sampling point should be isolated in such a manner that it is not influenced by any other waters or sediments. In the near

- 13 -

future, the Army Corps of Engineers is planning to dredge all of the polluted sediments from the Grand Calumet River in the immediate area of U.S.S. Lead. Thus, until the actual dredge work begins it will suffice to stop the current source of the toxicant's coming from U.S.S. Lead.

V. Administrative and Enforcement History
(State and Federal)

A. Prior Attempts to Obtain Compliance

The State of Indiana, Indiana Stream Pollution Control Board issued a National Pollutant Discharge Elimination System (NPDES) Permit to U.S.S. Lead on June 15, 1978. This permit expired March 31, 1980, and a renewal application was not made until September 27, 1982, in violation of Section 301(a) the CWA, 33 U.S.C. §1311.

The NPDES Permit contained interim effluent limitations in effect on the date of issuance of the Permit until its expiration on March 31, 1980. Pertinent limitations included:

<u>Effluent Characteristic</u>	<u>kg/day Daily Average</u>	<u>(lbs/day) Daily Maximum</u>	<u>Other Limitations Average Maximum</u>	
Flow-M ³ /day (MGD)	-	-	-	-
Total Lead	-	-	-	0.2 mg/l
Arsenic	-	-	-	1.0 mg/l
Sulfate	*230(506)	*459(1012)	-	-
Fluoride	1.8(4.0)	3.6(8.0)	-	-
Total Suspended Solids	-	-	10 mg/l	30 mg/l

*Net Values - above the background levels of the intake water.
Intake water shall be monitored on daily basis by grab samples.

Additionally, the permit required flow measurement when sampling; daily 24-hour composite sampling for total lead, arsenic, sulfate, fluoride, and total suspended solids; and a daily grab sample for ph. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility failed to report any effluent monitoring data between March, 1981, and August, 1982. Furthermore the Company's subsequently submitted Discharge Monitoring Reports (DMR) show that U.S.S. Lead consistently is in violation of the total lead limit and sampling requirements. Specifically, DMR's submitted by the facility show they exceeded the permit limits for lead during the months of: September 1982, thru June 1984 inclusive. (See Attachment 3)

The ISPCB initiated an enforcement proceeding against U.S.S. Lead for violations of Indiana Regulation 330 IAC 5 (failure to comply with the terms of the NPDES Permit) see Attachment 6. However, although the Notice of Hearing and Complaint were issued on April 3, 1984, on June 14, 1984, the State continued the proceedings indefinitely. Since that date the State has taken no further enforcement action nor entered into settlement negotiations with U.S.S. Lead.

On January 10, 1984, in response to a report of a duck in the vicinity of the U.S.S. Lead facility, a U.S. EPA inspection team was sent to investigate the site and sample the plant's

- 15 -

discharge and ditch on the west side of the plant. A report of the inspection by John McGuire, Environmental Engineer and Charles Steiner, Aquatic Biologist, is appended as Attachment 4.

On April 9-10, 1984, another U.S. EPA inspection team was sent to the site. A report of the inspection by John McGuire, Environmental Engineer, Sylvia Griffin, Physical Science Technician, and Mark Wehling, Engineer Trainee is appended as Attachment 5. Both inspections by U.S. EPA personnel substantiate the problems encountered by state inspections and cite the facility for exceeding the effluent limitations within its expired permit, discharging without a valid permit and improper sampling procedures. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

B. Federal Enforcement

No federal enforcement was undertaken by the U.S. EPA prior to the issuance of this action. In light of the longstanding nature of this violation, and the necessity to bring U.S.S. Lead into compliance in an expeditious manner, this recommended federal enforcement action is appropriate. EPA will keep ISBH apprised of the progress of the suit, and afford the state appropriate opportunities to participate, if it so desires. Moreover, in this case, since the state already signaled its intent not to prosecute an enforcement action, issuance of an administrative action would be pointless.

- 15 -

Region V submits that a civil action rather than an administrative action, is needed to address these problems.

VI. REQUIRED ELEMENTS OF PROOF AND EVIDENCE

A. Elements of Proof

Because the instant case involves a violation of Section 301(a), 33 U.S.C. §1311(a), it will be necessary to prove that U.S.S. Lead discharged pollutants to navigable waters without a valid NPDES permit. The lack of a valid NPDES permit can be proven in a variety of ways, such as by affidavits from the custodians of records of EPA and the ISPCB, or if necessary through written interrogatories or requests for admissions. If U.S.S. Lead attempts to argue that its expired permit is valid, a prima facie case under the CWA for violation of NPDES permit terms and conditions is established by a showing of the following elements:

- (1) The existence of an NPDES permit properly issued to the defendant;
- (2) The validity of the permit at the time of the alleged violations; and
- (3) Actions by the defendant that are contrary to the terms and conditions of the permit.

The fact that U.S.S. Lead was discharging lead in excess of its permit limits can easily be demonstrated by use of the submitted DMRS and inspection reports. If necessary additional facts may be secured through written interrogatories and requests for admissions. A field survey to collect additional samples is being arranged, and additional information may be available in one month or less.

- 17 -

B. Evidence of Violation

Evidence to show that the company is presently discharging without a valid NPDES Permit can be easily presented by introducing the expired permit and the present application for a permit to discharge.

EPA presently has two inspection reports (See Attachments 4 and 5) concerning inspections by EPA personnel. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

We feel there is evidence to fully support this action. A forthcoming field survey can be used to supplement this data, but is not required to show proof of violation.

C. Discovery

Most of the evidence necessary to prove this case can be obtained from documents presently on file with EPA. We feel that there is currently enough evidence to fully support this action. Another field survey will be done to supplement the current data in the near future. EPA should be able to obtain whatever additional information is necessary concerning the quantity of lead discharges from answers to interrogatories, requests for production of documents, and requests for admissions.

D. Evidence of Environmental Harm

The lead water quality standard, for the portion of the river under discussion, is less than 0.05mg/l. U.S.S. Lead is violating this standard by discharging up to 4.01 mg/l of lead. Discharges

- 18 -

of lead of this concentration level into the environment can be very harmful.

E. Evidence Favorable to the Violator

There does not appear to be any evidence favorable to the violator.

F. Government Witnesses

The following U.S. EPA Region V, personnel are available to provide fact and expert testimony or introduce documents in this projected civil action.

General Permit
Requirements

Kenneth A. Fenner
Chief, Water Quality Branch
Water Division, Region V

Effluent limitation for
outfall 001 on the basis
of data gathered during
U.S. EPA inspections

John McGuire
Environmental Engineer
Environmental Services Division

Permit effluent limita-
tion violation on the
basis of monthly
discharge reports

Ronald D. Kovach
Environmental Scientist
Water Division

To testify to the
environmental damage
due to high lead
concentrations

Charles Steiner
Aquatic Biologist
Central Regional Laboratory

G. Defense Witnesses

It is unknown what witnesses U.S.S. Lead would produce, or upon what defenses U.S.S. Lead will attempt to rely.

H. Resource Needs

Due to the clear-cut nature of the violations in this case, the settlement potential could be excellent. Even if trial is

- 19 -

required, it is not anticipated that a substantial expenditure of Regional resources will be required. The case will require devotion of probably less than one-eighth work year of Regional Counsel and one-eighth work year of Water Division staff time.

VII. THE RELIEF SOUGHT.

The attached draft Complaint, Attachment 1, seeks the following relief against U.S.S. Lead:

- 1) a preliminary and permanent injunction to restrain present and future violations of U.S.S. Lead's NPDES Permit, or any successor Permit, and all applicable provisions and sections of the CWA and state regulations;
- 2) an Order requiring U.S.S. Lead to comply with the final effluent limits, and sampling procedures contained in U.S.S. Lead's NPDES Permit.
- 3) an Order requiring U.S.S. Lead to initiate proper operations and maintenance procedures to ensure the proper operation of the facility;
- 4) a civil penalty in the amount of \$10,000 per day for each day of violation of the terms and conditions of Indiana NPDES Permit No. IN0032425.

VIII. ANTICIPATED ISSUES

A. Possible Defenses

U.S.S. Lead may attempt to argue that its expired permit is valid pending acceptance of its present permit application. This argument is without merit. U.S.S. Lead is discharging without a valid permit. In addition, information presently available indicates U.S.S. Lead has consistently and continuously violated the effluent limits for lead contained in its expired permit. U.S.S. Lead might claim that it is economically infeasible for it to achieve applicable effluent limitations. However, reviewing

- 20 -

courts have been unsympathetic to economic infeasibility arguments in water pollution cases. See National Association of Metal Finishers v. Environmental Protection Agency, 713 F.2d 624 (3d Cir. 1983).

B. Equitable Arguments

U.S.S. Lead does not appear to have any equitable arguments. As a result of U.S. EPA inspections on Jan. 10, and April 9-10, 1984, EPA was apprised of the unpermitted discharge by U.S.S. Lead. After the ISPCB indicated that it did not intend to bring any further enforcement action, EPA acted promptly to address the unpermitted discharge so the equitable doctrine of laches would not apply. There has been no inexcusable delay in asserting a claim. See State of Michigan v. City of Allen Park, 501 F.Supp. 1007 (E.D. Mich. 1980).

C. Pending Related Administrative or Court Action

Although technically there is a pending administrative action with the Indiana Stream Pollution Control Board, the State has indicated that no additional action will be taken relating to the instant case.

D. Practical Problems

Due to the small size of the pollution source, it is possible that a court would not be sympathetic to requests for substantial penalties. However, due to the threat to the environment presented by this discharge, it should be possible to obtain injunctive relief, even if the Court is inclined to impose less than substantial penalties.

IX. LITIGATION STRATEGY

A. Other Potential Defendants

U.S.S. Lead is a relatively small company. In the event that it has insufficient financial resources to accomplish necessary action, it might be appropriate to name Sharon Steel Company, owner of U.S.S. Lead, as a defendant and/or the NVF corporation. Action against Donald J. Bidwell, Vice-President and General Manager might also be appropriate if it appears that U.S.S. Lead's unpermitted discharges were the result of his willfulness or negligence.

B. Jurisdiction and Venue

The United States District Courts have jurisdiction over this action pursuant to 33 U.S.C. §1319(b) and 28 U.S.C. §1345. Venue is proper in the United States District Court for the Northern District of Indiana, pursuant to 28 U.S.C. §1391(b), because that is the judicial district where the defendant resides and the cause of action accrued.

C. Potential for Summary Judgment

The violations in the case are clear-cut, and there do not appear to be any real issues of material fact. Therefore, a motion for summary judgment by the United States would probably be successful, if the case is not settled.

D. Related Violations

EPA is currently unaware of related violations of other environmental statutes by U.S.S. Lead.

E. Additional Compliance Mechanisms

A judicially enforceable consent decree placing U.S.S. Lead on a schedule for coming into compliance and providing for civil penalties is probably the best way to bring U.S.S. Lead into compliance. U.S. EPA believes that an Administrative Order would not be an effective enforcement vehicle due to the need to impose civil penalties for the 2-year period during which U.S.S. Lead was not in compliance.

F. Settlement Potential

Due to the clear-cut nature of the violations, the relatively simple corrective action the company should take to achieve compliance and the potential for substantial civil penalties being levied, the settlement potential of this case is fairly high.

X. INDEX OF ATTACHMENTS

1. Draft Complaint
2. NPDES Permit IN0032425
3. Discharge Monitoring Reports
4. Inspection Report by John McGuire and Charles Steiner, EPA, concerning January 10, 1984 inspection
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6. Notices of Hearing and Complaint and Notices of Continued ISPCB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

LITIGATION REPORT

A REPORT DOCUMENTING SERIOUS AND CONTINUING
VIOLATIONS OF THE CLEAN WATER ACT BY THE UNITED STATES
SMELTING LEAD REFINERY, INCORPORATED, EAST CHICAGO, INDIANA

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TABLE OF CONTENTS

	PAGE
I. INFORMATION IDENTIFYING THE DEFENDANT.....	1
II. SYNOPSIS OF THE CASE.....	2
III. STATUTORY AUTHORITY.....	3
A. Substantive Legal Requirement.....	3
B. Prior Legal Interpretations.....	4
C. Alternate Courses of Action.....	4
IV. DESCRIPTION OF DEFENDANT AND TECHNICAL DESCRIPTION OF POLLUTION SOURCE.....	7
A. Description of the Facility.....	9
B. Source of Pollution.....	9
C. Pollutants Involved; Environmental Harm.....	12
D. Available Control Technology..... (Remedial Action)	12
V. ADMINISTRATIVE AND ENFORCEMENT HISTORY (STATE AND FEDERAL).....	13
A. Prior Attempts to Obtain Compliance.....	13
B. Federal Enforcement.....	15
VI. REQUIRED ELEMENTS OF PROOF AND EVIDENCE.....	16
A. Elements of Proof.....	16
B. Evidence of Violation.....	17
C. Discovery.....	17
D. Evidence of Environmental Harm.....	17
E. Evidence Favorable to the Violator.....	18
F. Government Witnesses.....	18
G. Defense Witnesses.....	18
H. Resource Needs.....	18

	<u>Page</u>
VII. RELIEF REQUESTED.....	19
VIII. ANTICIPATED ISSUES.....	19
A. Possible Defenses.....	19
B. Equitable Arguments.....	20
C. Pending Related Administrative or Court Action.....	20
D. Practical Problems.....	20
IX. LITIGATION STRATEGY.....	21
A. Other Potential Defendants.....	21
B. Jurisdiction and Venue.....	21
C. Potential for Summary Judgment.....	21
D. Related Violations.....	21
E. Additional Compliance Mechanisms.....	22
F. Settlement Potential.....	22
X. INDEX OF ATTACHMENTS.....	23

I. INFORMATION IDENTIFYING THE DEFENDANT

A. Name

United States Smelting Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

Registered Agent

Donald J. Bidwell
5300 Kennedy Avenue
East Chicago, Indiana 46312

B. Type of Business

Operates a lead reclamation business using batteries and other waste materials containing lead in the extraction process

C. Judicial District In Which Defendant Is Located

United States District Court for the Northern District of Indiana.

D. Name And Address Of Defendant's Counsel

Unknown

II. SYNOPSIS OF THE CASE

United States Smelting Lead Refinery, Inc. (U.S.S. Lead) operates a plant in East Chicago, Indiana. The plant is a secondary lead refinery/smelter. U.S.S. Lead reclaims lead primarily from old automobile and truck batteries. This reclamation process results in the generation of a wastewater stream containing acids, lead, arsenic, sulfates, fluorides, and suspended solids. The process also uses a once through non-contact cooling water. The contaminated wastewater process stream is discharged to the East Chicago Wastewater Treatment Plant. The non-contact cooling water combines with plant

storm drain run-off and boiler water blowdown and is discharged to the Grand Calumet River (via a marsh), which is tributary to the Indiana Harbor Canal, tributary to Lake Michigan. About 15,000 gallons of non-contact cooling water alone are generated per day, along with an unspecified amount of storm water runoff and boiler blowdown.

A National Pollutant Discharge Elimination System (NPDES) permit, IN 0032425, was issued to U.S.S. Lead Inc. by the Indiana Stream Pollution Control Board (ISPCB) on June 15, 1975, expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiration date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. Therefore, from March 31, 1980 until the present, the U.S.S. Lead has continued to discharge without a valid permit.

Even assuming arguendo, that the defendant's expired permit was still in effect, a review of the Discharge Monitoring Reports (DMR's) submitted by the U.S.S. Lead indicates that the permittee has consistently exceeded the permit's effluent limits for maximum lead concentrations since September 1982, through and including June 1984. U.S. EPA compliance sampling inspections on January 10, 1984 and on April 9-10, 1984 have also found U.S.S. Lead to be violating the permit's effluent limits for maximum lead concentrations. Attachments 4 & 5)

The expired permit required U.S.S. Lead to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the

violations. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calumet River. The permit's discharge limitations also require U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984 U.S. EPA plant inspections indicate that the U.S.S. Lead sampling point is neither an accurate nor representative sampling location of the discharge. Both inspections found the current sampling point to be submerged below the receiving streams and influenced by runoff from adjacent landfill areas. According to the permit, the sampling point should not be influenced by either the receiving streams or runoff from adjacent landfill areas.

The State has failed to take appropriate enforcement action. Although the ISPCB initiated an enforcement proceeding against U.S.S. Lead on April 3, 1984, on June 14, 1984, the state continued the proceedings indefinitely. (Attachment 6) To our knowledge, the ISPCB has not undertaken any settlement negotiations. Accordingly, Region V submits that a Federal enforcement action should be instituted.

III. STATUTORY AUTHORITY

A. Substantive Legal Requirement

Section 301 of the Clean Water Act, as amended (CWA) [33 U.S.C. § 1311], makes it unlawful to discharge pollutants in to the waters of the United States, except in conformance with

the terms and conditions of an NPDES permit properly issued pursuant to Section 402 of the Act.

Section 309 of the CWA, 33 U.S.C. § 1319, provides the authority to seek a preliminary or permanent injunction against violations of NPDES permit requirements as well as civil penalty assessment of up to \$10,000 per day of violation.

Section 309(b), 33 U.S.C. § 1319(b), vests jurisdiction of civil matters under the CWA in the United States District Court for the District in which the defendant is located, resides, or is doing business. The Defendant, U.S.S. Lead, is physically located within the jurisdiction of the U.S. District Court for the Northern District of Indiana.

Section 506, 33 U.S.C. § 1366, provides authority to the Department of Justice to bring the action on behalf of the Administrator, U.S. EPA. A draft Complaint is appended to this Report as Attachment 1.

B. Prior Legal Interpretations

The instant case involves an unpermitted discharge of toxic and non-toxic pollutants to navigable waters of the United States, in violation of 33 U.S.C. §1311(a). There are a number of reported judicial decisions which discuss issues which may arise in the instant case.

The case which has probably the greatest similarity with the instant case and which discusses the most potential issues is United States v. Earth Sciences, Inc., 599 F.2d 368 (10th Cir. 1979). That case involved unpermitted discharges from a gold leaching operation to a stream which was not used for navigation. The Tenth Circuit held that Congress intended to regulate waters

to the fullest extent of its constitutional powers, and that any discharge which could possibly impact navigable waters would be considered as a discharge to navigable waters as proscribed in the Act. The Court also held that the Act imposed strict liability, and that intent to violate the Act was not a requirement. Finally, the court held that EPA need not issue an Administrative Order or Notice of violation before filing a civil action, and that EPA could choose to enforce the requirements of the Act prospectively against a particular violator or punish the violator for past violations.

The issue of what constitutes navigable waters has been treated in other cases. Courts interpret the Act broadly to include any area which could potentially impact waters which are navigable in fact. In United States v. Phelps Dodge, 391 F. Supp. 1181 (D. Ari. 1975), the court found that a prohibited discharge could occur to dry arroyos if pollutants could possibly end up in a navigable body of water. In United States v. Texas Pipe Line Company, 611 F.2d 345 (10th Cir. 1979), the court held that a prohibited discharge could occur to an unnamed tributary of a navigable water, especially if flow from the tributary could occur during rainfall.

Intent has been held not to be a requirement for violation of the Act. See United States v. Bradshaw, 541 F. Supp. 884 (D. Md. 1982). In United States v. Frezzo Brothers, 546 F. Supp. 713 (E.D. Pa. 1982), a United States District Court held that it was not necessary for the government to prove that the defendant

Second, because U.S.S. Lead is discharging toxic pollutants which may have already adversely impacted the receiving water, it is imperative to place U.S.S. Lead on a judicially enforceable schedule for coming into compliance as expeditiously as practicable.

Another alternative action is to reissue the permit. However, this is an unacceptable solution because it would not address U.S.S. Lead's failure to apply for a new permit in a timely fashion. Also, under the terms and conditions of a new permit, U.S.S. Lead would still continue to violate the effluent guidelines for lead.

The most viable alternative is to file a civil action. The filing of a civil action would enable the EPA to collect civil penalties and hopefully to negotiate a consent decree. A civil action for injunctive relief and civil penalties would provide the necessary deterrent to abate this potential threat to public health as soon as possible. Issuance of an administrative order would only delay the process.

IV. DESCRIPTION OF DEFENDANT AND TECHNICAL DESCRIPTION OF POLLUTION SOURCE

U.S.S. Lead Refinery Incorporated, East Chicago, Indiana is located in northwest Indiana approximately 25 miles from downtown Chicago, Illinois. The facility is discharging a combination non-contact process cooling water, boiler blowdown and storm water stream into the Grand Calumet River, tributary to the Indiana Harbor Canal, tributary to Lake Michigan.

The pollution source from the defendant is controlled by a National Pollutant Discharge Elimination System (NPDES) permit, No. 0032425; which was issued to U.S.S. Lead on June 15, 1975,

expiration date March 31, 1980. The permit requires U.S.S. Lead to request renewal of the permit no later than 180 days prior to the permit's expiration date. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. From March 31, 1980 until the present, U.S.S. Lead continues to discharge pollutants without a permit.

The expired permit had a maximum total lead discharge limit of 0.2 mg/l to be monitored on a weekly grab basis. All of the DMR's submitted by U.S.S. Lead between September 1982 through and including June 1984 showed violations of the effluent limits for lead. The U.S. EPA compliance sampling inspections on January 10, 1984 and April 9-10, 1984 indicate the discharge lead concentration to be respectively, 1.43 mg/l, and 4.01 mg/l.

The expired permit required the permittee to notify in writing, the Regional Administrator and the State of Indiana of any permit violations within 5 days after learning of the violation. U.S.S. Lead has contacted neither the U.S. EPA nor the ISPCB of any of the aforementioned lead limit violations.

The expired permit further required U.S.S. Lead to take samples in compliance with the permit's monitoring requirements at a point representative of the discharge but prior to entry into the Grand Calumet River. The permit's discharge limitations also required U.S.S. Lead to monitor the effluent flow. Both the January 10, 1984 and April 9-10, 1984, U.S. EPA plant inspections indicate that contrary to this permit requirement the U.S.S. Lead sampling point is neither an accurate nor representative sampling location of the discharge. Both the January and April 1984 U.S. EPA inspections indicate that the current

U.S.S. Lead sampling point can be influenced by runoff from a battery storage area, runoff or leaching from an adjacent slag-filled area, boiler blowdown, or during low flow, leaching from sediments in the discharge area.

The flow measurement for the discharge is based only on an estimate of the process cooling water. Accordingly, the flow measurement calculations do not account for water due to storm drain runoff or inflow, that is infiltrating to the drainage system, or boiler blowdown.

A. Description of the Facility

U.S.S. Lead is located at 5360 Kennedy Avenue, East Chicago, Indiana 46312, phone number 219/397-1010; Mr. Donald J. Bidwell is listed as the Vice-President, General Manager of the company. The facility has annual sales of \$9-10 million; employs approximately 110 people; has about 70,000 square feet of floor space; and is owned by Sharon Steel Corporation. Sharon Steel Corporation's address is P.O. Box 291, Sharon, PA 16146; phone number 412/981-1375. Sharon Steel Corporation is in turn owned by the NVF Company, Yorklyn Rd., Yorklyn, Delaware 19736; phone number 302/239-5281. The NVF Company employs approximately 6,150 people and has assets of \$5,000,000,000.

B. Source of Pollution

The facility is a secondary lead smelter using lead from old automobile and truck batteries and industrial lead scrap as it's raw material.

The process subdivides each battery into it's primary 3

components (i.e., acid, lead cell, and casings). Then, each separate component is in turn handled as follows:

1. The acid component is treated in a two stage system to remove lead and to control pH; the first stage settles out the lead; while the second stage adds sodium hydroxide to the acid to neutralize it to a pH around 7.0. The recovered lead is further processed via a mechanical and chemical operation which produces a high grade of reusable lead ore and an acidic sludge. The sludge is disposed of properly under RCRA as a hazardous waste.

2. The lead battery cells are removed and sent to the plant's blast furnace (according to a March 1984 Air Compliance inspection, the plant is in compliance).

3. The battery casings are separated by type, i.e., plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time. Both the January and April 1984, U.S. EPA inspections report that there may potentially be a problem from runoff due to this storage. During a forthcoming inspection, scheduled for later this year, samples can be obtained of the soil and surface waters in the battery storage area. The results from these samples can then be used to determine the extent of the potential problems which U.S.S. Lead could be asked to correct via modification of the relief sought.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP. No adverse impacts from this discharge have been reported.

According to the plant engineer, Mr. R.D. Steels, discharge from outfall 001 consists of non-contact cooling water, storm water drains, and boiler blowdown. Casting house cooling water and storm drains combine with boiler house storm drains. The water then combines with cooling water from the furnace and is discharged without any treatment at discharge 001.

The facility's permit which expired in March 1980, required: flow measurement (when sampling); daily 24-hour composite sampling for total lead, arsenic, sulfate, flouride, and total suspended solids; and a daily grab sample for pH. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility did not report any Effluent Monitoring Data between March 1981 and August 1982.

The analytical results of the samples taken during both the January 10 and April 9-10, 1984 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.01 mg/l. DMR's submitted by the facility show they exceeded the permit limits for lead during the months of May 1982 thru June 1984 inclusive.

The facility collects samples from outfall 001 in the channel after the water has left the discharge pipe. This sampling point could be influenced by run-off from the battery storage area, run-off or leaching from an adjacent slag filled area, boiler blowdown, or at low flow, the discharge channel sediments. The samples taken during the January 10th survey are from this sample point. The samples taken during the April 9-10th survey are from a man hole upstream of the discharge pipe and accurately reflect what is in the discharge pipe. (Attachments 4 and 5)

C. Pollutants Involved; Environmental Harm

The serious and continuous level of lead discharged into the Grand Calumet River is causing irrefutable damage to the aquatic life in the vicinity of the U.S.S. Lead facility.

Standard acute data for lead on freshwater fish and invertebrate species, shows both acute and chronic toxicities on these groups. Freshwater algae are affected by high concentrations of lead. Delayed development, suppressed reproduction and inhibition of growth rate among fish, crab, polychaete worm and plankton are also caused by lead. Lead in man has been shown to cause adverse carcinogenic, tetratogenic, mutagenic, reproductive, renal, and cardiovascular effects.

D. Remedial Action

The facility should isolate all of its once through cooling lines from any process contamination. Accurate total flow measurements should be made of the discharge. The discharge sampling point should be isolated in such a manner that it is not influenced by any other waters or sediments. In the near

future, the Army Corps of Engineers is planning to dredge all of the polluted sediments from the Grand Calumet River in the immediate area of U.S.S. Lead. Thus, until the actual dredge work begins it will suffice to stop the current source of the toxicant's coming from U.S.S. Lead.

V. Administrative and Enforcement History
(State and Federal)

A. Prior Attempts to Obtain Compliance

The State of Indiana, Indiana Stream Pollution Control Board issued a National Pollutant Discharge Elimination System (NPDES) Permit to U.S.S. Lead on June 15, 1975. This permit expired March 31, 1980, and a renewal application was not made until September 27, 1982, in violation of Section 301(a) the CWA, 33 U.S.C. §1311.

The NPDES Permit contained interim effluent limitations in effect on the date of issuance of the Permit until its expiration on March 31, 1980. Pertinent limitations included:

<u>Effluent Characteristic</u>	<u>kg/day Daily Average</u>	<u>(lbs/day) Daily Maximum</u>	<u>Other Limitations Average Maximum</u>
Flow-M ³ /day (MGD)	-	-	-
Total Lead	-	-	0.2 mg/l
Arsenic	-	-	1.0 mg/l
Sulfate	*230(506)	*459(1012)	-
Fluoride	1.8(4.0)	3.6(8.0)	-
Total Suspended Solids	-	-	20 mg/l 30 mg/l

*Net Values - above the background levels of the intake water.
Intake water shall be monitored on daily basis by grab samples.

Additionally, the permit required flow measurement when sampling; daily 24-hour composite sampling for total lead, arsenic, sulfate, fluoride, and total suspended solids; and a daily grab sample for ph. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

The facility failed to report any effluent monitoring data between March, 1961, and August, 1982. Furthermore the Company's subsequently submitted Discharge Monitoring Reports (DMR) show that U.S.S. Lead consistently is in violation of the total lead limit and sampling requirements. Specifically, DMR's submitted by the facility show they exceeded the permit limits for lead during the months of: September 1982, thru June 1984 inclusive. (See Attachment 3)

The ISPCB initiated an enforcement proceeding against U.S.S. Lead for violations of Indiana Regulation 330 IAC 5 (failure to comply with the terms of the NPDES Permit) see Attachment 6. However, although the Notice of Hearing and Complaint were issued on April 3, 1984, on June 14, 1984, the State continued the proceedings indefinitely. Since that date the State has taken no further enforcement action nor entered into settlement negotiations with U.S.S. Lead.

On January 10, 1984, in response to a report of a duck kill in the vicinity of the U.S.S. Lead facility, a U.S. EPA inspection team was sent to investigate the site and sample the plant's

discharge and ditch on the west side of the plant. A report of the inspection by John McGuire, Environmental Engineer and Charles Steiner, Aquatic Biologist, is appended as Attachment 4.

On April 9-10, 1984, another U.S. EPA inspection team was sent to the site. A report of the inspection by John McGuire, Environmental Engineer, Sylvia Griffin, Physical Science Technician, and Mark Wehling, Engineer Trainee is appended as Attachment 5. Both inspections by U.S. EPA personnel substantiate the problems encountered by state inspections and cite the facility for exceeding the effluent limitations within its expired permit, discharging without a valid permit and improper sampling procedures. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

B. Federal Enforcement

No federal enforcement was undertaken by the U.S. EPA prior to the issuance of this action. In light of the longstanding nature of this violation, and the necessity to bring U.S.S. Lead into compliance in an expeditious manner, this recommended federal enforcement action is appropriate. EPA will keep ISBH apprised of the progress of the suit, and afford the state appropriate opportunities to participate, if it so desires. Moreover, in this case, since the state already signaled its intent not to prosecute an enforcement action, issuance of an administrative action would be pointless.

Region V submits that a civil action rather than an administrative action, is needed to address these problems.

VI. REQUIRED ELEMENTS OF PROOF AND EVIDENCE

A. Elements of Proof

Because the instant case involves a violation of Section 301(a), 33 U.S.C. §1311(a), it will be necessary to prove that U.S.S. Lead discharged pollutants to navigable waters without a valid NPDES permit. The lack of a valid NPDES permit can be proven in a variety of ways, such as by affidavits from the custodians of records of EPA and the ISPCB, or if necessary through written interrogatories or requests for admissions. If U.S.S. Lead attempts to argue that its expired permit is valid, a prima facie case under the CWA for violation of NPDES permit terms and conditions is established by a showing of the following elements:

- (1) The existence of an NPDES permit properly issued to the defendant;
- (2) The validity of the permit at the time of the alleged violations; and
- (3) Actions by the defendant that are contrary to the terms and conditions of the permit.

The fact that U.S.S. Lead was discharging lead in excess of its permit limits can easily be demonstrated by use of the submitted DMRS and inspection reports. If necessary additional facts may be secured through written interrogatories and requests for admissions. A field survey to collect additional samples is being arranged, and additional information may be available in one month or less.

B. Evidence of Violation

Evidence to show that the company is presently discharging without a valid NPDES Permit can be easily presented by introducing the expired permit and the present application for a permit to discharge.

EPA presently has two inspection reports (See Attachments 4 and 5) concerning inspections by EPA personnel. The analytical results of the samples taken during both the January 10 and April 9-10 inspections show that the facility exceeded its permit limits for lead of 0.2 mg/l. The January 10 result for lead was 1.43 mg/l. The April 9-10 result for lead was 4.0 mg/l.

We feel there is evidence to fully support this action. A forthcoming field survey can be used to supplement this data, but is not required to show proof of violation.

C. Discovery

Most of the evidence necessary to prove this case can be obtained from documents presently on file with EPA. We feel that there is currently enough evidence to fully support this action. Another field survey will be done to supplement the current data in the near future. EPA should be able to obtain whatever additional information is necessary concerning the quantity of lead discharges from answers to interrogatories, requests for production of documents, and requests for admissions.

D. Evidence of Environmental Harm

The lead water quality standard, for the portion of the river under discussion, is less than 0.05mg/l. U.S.S. Lead is violating this standard by discharging up to 4.01 mg/l of lead. Discharges

of lead of this concentration level into the environment can be very harmful.

E. Evidence Favorable to the Violator

There does not appear to be any evidence favorable to the violator.

F. Government Witnesses

The following U.S. EPA Region V, personnel are available to provide fact and expert testimony or introduce documents in this projected civil action.

General Permit
Requirements

Kenneth A. Fenner
Chief, Water Quality Branch
Water Division, Region V

Effluent limitation for
outfall 001 on the basis
of data gathered during
U.S. EPA inspections

John McGuire
Environmental Engineer
Environmental Services Division

Permit effluent limita-
tion violation on the
basis of monthly
discharge reports

Ronald D. Kovach
Environmental Scientist
Water Division

To testify to the
environmental damage
due to high lead
concentrations

Charles Steiner
Aquatic Biologist
Central Regional Laboratory

G. Defense Witnesses

It is unknown what witnesses U.S.S. Lead would produce, or upon what defenses U.S.S. Lead will attempt to rely.

H. Resource Needs

Due to the clear-cut nature of the violations in this case, the settlement potential could be excellent. Even if trial is

required, it is not anticipated that a substantial expenditure of Regional resources will be required. The case will require devotion of probably less than one-eighth work year of Regional Counsel and one-eighth work year of Water Division staff time.

VII. THE RELIEF SOUGHT.

The attached draft Complaint, Attachment 1, seeks the following relief against U.S.S. Lead:

- 1) a preliminary and permanent injunction to restrain present and future violations of U.S.S. Lead's NPDES Permit, or any successor Permit, and all applicable provisions and sections of the CWA and state regulations;
- 2) an Order requiring U.S.S. Lead to comply with the final effluent limits, and sampling procedures contained in U.S.S. Lead's NPDES Permit.
- 3) an Order requiring U.S.S. Lead to initiate proper operations and maintenance procedures to ensure the proper operation of the facility;
- 4) a civil penalty in the amount of \$10,000 per day for each day of violation of the terms and conditions of Indiana NPDES Permit No. IN0032425.

VIII. ANTICIPATED ISSUES

A. Possible Defenses

U.S.S. Lead may attempt to argue that its expired permit is valid pending acceptance of its present permit application. This argument is without merit. U.S.S. Lead is discharging without a valid permit. In addition, information presently available indicates U.S.S. Lead has consistently and continuously violated the effluent limits for lead contained in its expired permit. U.S.S. Lead might claim that it is economically infeasible for it to achieve applicable effluent limitations. However, reviewing

courts have been unsympathetic to economic infeasibility arguments in water pollution cases. See National Association of Metal Finishers v. Environmental Protection Agency, 713 F.2d 624 (3d Cir. 1983).

B. Equitable Arguments

U.S.S. Lead does not appear to have any equitable arguments. As a result of U.S. EPA inspections on Jan. 10, and April 9-10, 1981, EPA was apprised of the unpermitted discharge by U.S.S. Lead. After the ISPCB indicated that it did not intend to bring any further enforcement action, EPA acted promptly to address the unpermitted discharge so the equitable doctrine of laches would not apply. There has been no inexcusable delay in asserting a claim. See State of Michigan v. City of Allen Park, 501 F.Supp. 1007 (E.D. Mich. 1980).

C. Pending Related Administrative or Court Action

Although technically there is a pending administrative action with the Indiana Stream Pollution Control Board, the State has indicated that no additional action will be taken relating to the instant case.

D. Practical Problems

Due to the small size of the pollution source, it is possible that a court would not be sympathetic to requests for substantial penalties. However, due to the threat to the environment presented by this discharge, it should be possible to obtain injunctive relief, even if the court is inclined to impose less than substantial penalties.

IX. LITIGATION STRATEGY

A. Other Potential Defendants

U.S.S. Lead is a relatively small company. In the event that it has insufficient financial resources to accomplish necessary action, it might be appropriate to name Sharon Steel Company, owner of U.S.S. Lead, as a defendant and/or the NVF corporation. Action against Donald J. Bidwell, Vice-President and General Manager might also be appropriate if it appears that U.S.S. Lead's unpermitted discharges were the result of his willfulness or negligence.

B. Jurisdiction and Venue

The United States District Courts have jurisdiction over this action pursuant to 33 U.S.C. §1319(b) and 28 U.S.C. §1345. Venue is proper in the United States District Court for the Northern District of Indiana, pursuant to 28 U.S.C. §1391(b), because that is the judicial district where the defendant resides and the cause of action accrued.

C. Potential for Summary Judgment

The violations in the case are clear-cut, and there do not appear to be any real issues of material fact. Therefore, a motion for summary judgment by the United States would probably be successful, if the case is not settled.

D. Related Violations

EPA is currently unaware of related violations of other environmental statutes by U.S.S. Lead.

E. Additional Compliance Mechanisms

A judicially enforceable consent decree placing U.S.S. Lead on a schedule for coming into compliance and providing for civil penalties is probably the best way to bring U.S.S. Lead into compliance. U.S. EPA believes that an Administrative Order would not be an effective enforcement vehicle due to the need to impose civil penalties for the 2-year period during which U.S.S. Lead was not in compliance.

F. Settlement Potential

Due to the clear-cut nature of the violations, the relatively simple corrective action the company should take to achieve compliance and the potential for substantial civil penalties being levied, the settlement potential of this case is fairly high.

INDEX OF ATTACHMENTS

1. Draft Complaint
2. NPDES Permit IN0032425
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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF OHIO
EASTERN DIVISION

UNITED STATES OF AMERICA,)	
)	
Plaintiff,)	
)	
v.)	CIVIL ACTION NO.
)	
UNITED STATES SMELTING LEAD)	
REFINERY, INC.)	
)	
Defendant.)	
)	

COMPLAINT

Plaintiff, the United States of America, by its undersigned attorneys and at the request of the Regional Administrator, Region V, of the United States Environmental Protection Agency, brings this action against the United States Smelting Lead Refinery (U.S.S. Lead) doing business in East Chicago, Indiana, and alleges:

1. This is a civil action to recover civil penalties from Defendant, U.S.S. Lead, for violations of the Clean Water Pollution Control Act, as amended, CWA 33 U.S.C. §1251, et seq. and the terms of National Pollutant Discharge Elimination System (NPDES) permit No. IN0032425. This action also seeks to enjoin the Defendant from violating the Act and the regulations promulgated thereunder.

2. This Court has jurisdiction over this action under 28 U.S.C. §1345 and Section 309(b) of the Act, 33 U.S.C. §1319(b).

8. The aforementioned permit, IN 0032425, issued June 15, 1975 expired March 31, 1980. U.S.S. Lead did not request a renewal of the permit until September 27, 1982. U.S.S. Lead has continuously discharged pollutants since its permit expiration in violation of Section 301(a) of the Act, 33 U.S.C. §1311(a).

9. Some of the pollutants discharged by U.S.S. Lead are toxic pollutants within the meaning of Section 301(b)(2)(C) of the Act, 33 U.S.C. §1311(b)(2)(C). The discharge of these pollutants presents a particularly acute threat to the environment.

10. Unless relief is granted by the court, Defendant will continue to violate the Federal Water Pollution Control Act, as amended, in the operation and ownership of the above-described lead refinery facility.

Wherefore, Plaintiff, United States of America, prays that:

a. Defendants be permanently enjoined under Section 309(b) of the CWA, as amended, 33 U.S.C. §1319(b), and the Court's general equity power, from operating its lead refinery except in accordance with the CWA and the regulations promulgated pursuant thereto;

b. Defendants be ordered to perform testing and analyses of its effluent as expeditiously as practicable and report the results to EPA, and to take such other affirmative action as is necessary to operate its plant in compliance with the CWA and

other applicable statutes and regulations.

c. That the Court order Defendant to pay a civil penalty of \$10,000 per day of violation;

d. That the Court order the Plaintiff to recover from the Defendant the cost of such action; and

e. That the Court grant such other relief that the Court deems just and proper.

Respectfully submitted,

Page 1 of 9

Permit No. IN 0032425

Application No. IN 0032425

INDIANA STREAM POLLUTION CONTROL BOARD

AUTHORIZATION TO DISCHARGE UNDER THE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "ACT"), and Public Law 100, Acts of 1972, as amended, (10 1971, 13-7, et. seq., the "Environmental Management Act"),

U.S.S. Lead Refinery, Incorporated

is authorized to discharge from a facility located at

5300 Kennedy
East Chicago, Indiana

to receiving waters named

Grand Calumet River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

The permit shall become effective on June 15, 1975.

This permit and the authorization to discharge shall expire at midnight, March 31, 1980. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Indiana Stream Pollution Control Board no later than 180 days prior to the date of expiration.

Signed this 18th day of June, 1975, for the Indiana Stream Pollution Control Board.

Oralbert

Technical Secretary

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning with the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge from outfall(s) 001. Such discharge shall be limited and monitored by the permittee as specified below:

Discharge Limitations

Effluent Characteristic	kg/day Daily Average	(lbs/day) Daily Maximum	Other Limitations		Monitoring Requirement Measurement Frequency	Sample Type
			Average	Maximum		
Flow-M ³ /day (MGD)	-	-	-	-	monitor when sampling	
Total Lead	-	-	-	0.2 mg/l	daily 24-hr.	composi
Arsenic	-	-	-	1.0 mg/l	daily 24-hr.	composi
Sulfate	*230(506)	*459(1012)	-	-	daily 24-hr.	composi
Fluoride	1.8(4.0)	3.6(8.0)	-	-	daily 24-hr.	composi
Total Suspended Solids	-	-	20 mg/l	30 mg/l	daily 24-hr.	composi

*Net Values - above the background levels of the intake water. Intake water shall be monitored on daily basis by grab samples.

- a. The pH shall not be less than 6.0 nor greater than 9.0. The pH shall be monitored as follows: daily by grab sampling.
- b. The discharge shall not cause excessive foam in the receiving waters. The discharge shall be essentially free of floating and settleable solids.
- c. The discharge shall not contain oil or other substances in amounts sufficient to create a visible film or sheen on the receiving waters.
- d. Samples taken in compliance with the monitoring requirements above shall be taken at a point representative of the discharge but prior to entry into the Grand Calumet River.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

The permittee shall submit monitoring reports to the Indiana Stream Pollution Control Board containing results obtained during the previous month and shall be postmarked no later than the 28th day of the month following each completed monitoring period. The first report shall be submitted by July 28th for the month of June, 1975.

The Regional Administrator may request the permittee to submit monitoring reports to the Environmental Protection Agency if it is deemed necessary to assure compliance of the permit.

3. Definitions

a. Daily Average

1. Weight Basis - The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was discharging. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.
2. Concentration Basis - The "daily average" concentration means the arithmetic average (weighed by flow value) of all daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the average (weighed by flow value) of all the samples collected during the calendar day.

b. "Daily Maximum" Discharge

1. Weight Basis - the "daily maximum" discharge means the total discharge by weight during any calendar day.
2. Concentration Basis - the "daily maximum" concentration means the daily determination of concentration for any calendar day

- c. The Regional Administrator is defined as the Region V Administrator, U. S. EPA, located at 230 South Dearborn Street, Chicago, Illinois 60606-353-2000
- d. The Indiana Stream Pollution Control Board is located at the following address; 1330 West Michigan Street. Indianapolis, Indiana 46206.

4. Test Procedures

Test procedures for analysis of pollutants shall conform to regulations published pursuant to Section 304 (g) of the Act, the most recent edition of "Standard Methods for the Examination of Water and Wastewater," or other methods approved by the Indiana Stream Pollution Control Board, under which such procedures may be required.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Indiana Stream Pollution Control Board Monthly Monitoring Report. Such increased frequency shall also be indicated.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Regional Administrator or the Indiana Stream Pollution Control Board.

PART II

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Containment Facilities

The permittee shall provide approved facilities for containment of any accidental losses of cyanide or cyanogen compounds in accordance with the requirements of the, Stream Pollution Control Board, Regulation SPC-2.

3. Operator Certification

The permittee shall have the waste treatment facilities under the direct supervision of an operator certified by the Indiana State Health Commissioner as required by Acts of 1967, Chapter 273, as amended, (IC 1971, 13-1-6).

4. Noncompliance Notification

If, for any reasons, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitations specified in this permit, the permittee shall provide a Regional Administrator and the State of Indiana with the following information, in writing, within five (5) days after becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

5. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible, all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

PART II

Page 6 of 9

Permit No. IN 0032425

6. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

7. By-passing

Any diversion from or by-pass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effluent limitations and prohibition of this permit. The permittee shall promptly notify the Indiana Stream Pollution Control Board and the Regional Administrator, in writing, of such diversion or by-pass.

8. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed from or resulting from treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters and to be in compliance with all Indiana statutory provisions, regulations, relative to refuse, liquid and/or solid waste disposal.

9. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. Provide an alternative power source sufficient to operate facilities utilized by permittee to maintain compliance with the effluent limitations and conditions of this permit which provision shall be indicated in this permit by inclusion of a specific compliance date in each appropriate "Schedule of Compliance for Effluent Limitations", or
- b. Upon the reduction, loss, or failure of one or more of the primary sources of power to facilities utilized by the permittee to maintain compliance with the effluent limitations and conditions of this permit, the permittee shall halt, reduce or otherwise control production and/or all discharge in order to maintain compliance with the effluent limitations and conditions of this permit.

B. RESPONSIBILITIES**1. Right of Entry**

The permittee shall allow the Technical Secretary of the Stream Pollution Control Board, the Regional Administrator and/or their authorized representatives, upon the presentation of the credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Indiana Stream Pollution Control Board and the Regional Administrator.

3. Availability of Reports

Except for data determined to be confidential under Section 308 of the Act and as stated in Section 10, of Stream Pollution Control Board Regulation SPC-15 under the authority of IC 1971, 13-7 as amended, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the State Water Pollution Control Agency and the Regional Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act and Section 3(b), Chapter 13, Public Law 100, Acts of 1972 as amended, (IC 1971, 13-7).

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully, all relevant facts; or
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in permit conditions on "By-passing" (Part II, A-7) and "Power Failures" (Part II, A-9), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, such as accidents, equipment breakdowns, or labor disputes.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Act.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor infringement of Federal, State or local laws or regulations.

10. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

September 10, 1982

Mr. Joseph Stallsmith
State Board of Health
1330 West Michigan Street
P. O. Box 1964
Indianapolis, Indiana 46206

ATTENTION: MR. JOSEPH STALLSMITH

SUBJECT: RENEWAL OF NPDES PERMIT NO. 0032425

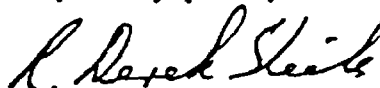
Dear Mr. Stallsmith:

On Thursday, September 9, 1982, at 2:30 p.m. we were visited by Mr. Dick Cleaton, your Industrial Wastewater Inspector for this district. We were challenged by him regarding our apparent disorganization on the renewal of our NPDES Permit and the monthly water reports that are to be submitted to your office. We showed Mr. Cleaton a copy of the NPDES forms that had been mailed to your Permits Section along with a check in the amount of \$150.00 for the fee. Water samples have been taken and sent to our laboratory. Monthly water reports will be submitted to you as required.

For the past two years, cutting back and changes in responsibilities obviously resulted in a lack of communication. In an effort to rectify this matter, we have enrolled our Maintenance Supervisor, Anthony Traicoff, in Ivy Tech for Wastewater treatment certification classes in preparation for the state exam to be given in South Bend this fall.

We anticipate this putting an end to any future problems involving permits and water samples and look forward to working with your department.

Very truly yours,



R. Derek Steels
Plant Engineer

U.S.S. LEAD REFINERY, INC

SUBSIDIARY OF SHARON STEEL CORPORATION - AN **NYSE** COMPANY

3300 Kennedy Avenue, East Chicago, Indiana 46312
 Telephones
 (219) 397-1012
 (312) 731-0500

September 27, 1982

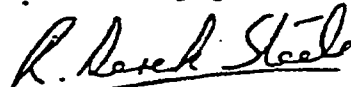
Mr. Larry J. Kane
 Chief, Permit Section
 Division of Water Pollution Control
 Indiana State Board of Health
 1330 W. Michigan, P. O. Box 1964
 Indianapolis, Indiana 46206

Dear Mr. Kane:

Enclosed please find Form No. 1 of our renewal application for NPDES Permit No. IN0032425, which was inadvertently omitted from our application forwarded to you September 8, 1982.

Also enclosed please find Plan No. Y90 of the plant site, showing general location, and Plan No. Y89 showing the storm and sanitary sewers. These are included in accordance with Item XI and after a telephone discussion with your Mr. Steve Roush, who felt that these would be more helpful than a U. S. Geological Survey map.

Please contact me if there are any further requirements to complete this application.

Very truly yours,

 R. D. Steels

RDS:sr
 Enclosures

A. FIRST		B. SECOND	
7 3 3 4 1 (specify)	Secondary Lead & Tin Based Alloys	7 (specify)	
C. THIRD		D. FOURTH	
7 (specify)		7 (specify)	

OPERATOR INFORMATION

A. NAME		B. Is the name of Item VIII-A owner?	
J. S. S. Lead Refinery, Inc.		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box. If "Other", specify.)		D. PHONE (area code & no.)	
F - FEDERAL S - STATE P - PRIVATE	M - PUBLIC (other than federal or state) D - OTHER (specify) P (specify)	A 2 1 9 3 9 7 1 0 1	
E. STREET OR P.O. BOX			
300 Kennedy Avenue			
F. CITY OR TOWN		G. STATE	H. ZIP CODE
East Chicago		IN	4,6,3,1,2
		IX. INDIAN LAND	
		Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)		D. PSD (Air Emissions from Proposed Sources)	
9 N 1 N D 0 3 2 4 2 0		9 P	
B. UIC (Underground Injection of Fluids)		E. OTHER (specify)	
9 U		9 3 0	(specify) East Chicago, Indiana
C. RCRA (Hazardous Wastes)		E. OTHER (specify)	
9 1 N D 0 4 7 0 3 0 2 2 0		9	(specify) Dept. of Air Quality Control

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Secondary Lead Smelter

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
J. Bidwell, Vice President - General Manager		Sept. 21, 19

COMMENTS FOR OFFICIAL USE ONLY

FORM 1
GENERAL



U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
(Read Consolidated Permits Program General Instructions before starting)

EPA ID NUMBER
IND047030226

I EPA ID NUMBER
II CITY NAME
III FACILITY
IV MAILING ADDRESS
V FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, fill it in the designated space. Review the information carefully; if any of it is incorrect, go through it and enter the correct data in appropriate fill-in area below. Also, if the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete items II if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK "X"			SPECIFIC QUESTIONS	MARK "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		yes	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		no	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP U. S. S. Lead Refinery, Inc.

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)

B. PHONE (area code & no.)

2 Steels Derek Plant Engineer

219 397 1012

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 5300 Kennedy Avenue

B. CITY OR TOWN

C. STATE

D. ZIP CODE

4 East Chicago,

IN

46312

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 5300 Kennedy Avenue

B. COUNTY NAME

Lake

C. CITY OR TOWN

D. STATE

E. ZIP CODE

F. COUNTY CODE (if known)

6 East Chicago

IN

46312

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

9/20/84

01631241215
(1-7)
PERMIT NUMBER

0011
(8-10)
OUTFALL/
FAC. NO.

016314
(11-22)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUST
4-FEDERA
5-WATER

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic			
EFFLUENT NO. (17-21)		50050	00400		001051		001000			
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	Day Avg. (24-36)	none								
	Day Max. (37-44)	none	6-9-0		0.2		1.0			
DATE	UNITS	MGD	HIGH	LOW	mg/l	lb/day	mg/l	lb/day		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12		0.30	6.0		0.40		0.2			
13										
14										
15										
16										
17										
18		0.40	5.8		0.44		0.3			
19										
20										
21										
22										
23										
24										
25										
26		0.50	7.1		0.52		0.4			
27										
28										
29		0.40	6.7		0.47		0.2			
30										
31										
AVERAGE (29-36)					0.45		0.27			
HIGHEST VALUE OF MONTH (37-44)					0.52		0.4			
LOWEST VALUE OF MONTH (45-52)					0.40		0.2			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)					4					

(SIGNATURE OF CERTIFIED OPERATOR) (55)

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (56)

REPORT FOR SPECIFIC OR NIDES DISCHARGE

30

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
1300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN 0032425

(1-7)
PERMIT NUMBER

GG1

(8-10)
OUTFALL/
FAC. NO.

0163/4

(11-12) (13-14)
MO. YR.

ENTER:

1 for NIDES
2 for SPEC

1

(15)

ENTER:

1

(16)

1-INDUS.
4-FEDER.
5-WATER

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sss. Solids			
EFFLUENT NO. (17-21)		C	Q0095	C	Q0095	C	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	Daily Avg. (29-35)		506		4		20		
	Daily (36-44)		1012		8		30		
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
(12)			12.51		1.75		1.0		
13									
14									
15									
16									
17									
18									
19			16.69		2.67		14		
20									
21									
22									
23									
24									
25									
(26)			29.20		3.75		15		
27									
28									
(29)			20.20		2.67		11		
30									
31									
AVERAGE (35-36)			19.60		2.71		12.5		
HIGHEST VALUE OF MONTH (37-44)			29.20		3.75		15		
LOWEST VALUE OF MONTH (45-52)			12.51		1.75		10		
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0		0		

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

010312141215
(1-7)
PERMIT NUMBER

0011
(8-10)
OUTFALL/
FAC. NO.

015314
(11-12)(23-24)
MO. YR.

ENTER:
1 for NPDES
2 for SPC-15

1
(15)

ENTER:
1-INDUSTRIAL
4-FEDERAL
5-WATERS

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic			
EFFLUENT NO. (17-21)		50050	00400		001051	0	001000			
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	DeBy Avg. (24-36)	none								
	DeBy Max. (37-44)	none	6-0-9-0		0.2		1.0			
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day		
1										
2										
3										
4										
5										
(6)		0.03	6.6		0.44		0.3			
7										
8										
9										
(10)		0.03	6.5		0.50		0.3			
11										
12										
13										
14										
15										
16										
(17)		0.04	6.9		0.49		0.4			
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
(29)		0.03	6.3		0.47		0.4			
30										
31										
AVERAGE (29-36)		0			0.47		0.35			
HIGHEST VALUE OF MONTH (37-44)		0			0.50		0.4			
LOWEST VALUE OF MONTH (45-52)		0			0.44		0.3			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)		0	0		4		0			

INDIANA
BOARD OF HEALTH
DIVISION OF WATER
POLLUTION CONTROL

JUN 25 11 52 AM '04

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF THE BOARD OF HEALTH)

REPORT ON (SAMPLING AND TESTS) (THIS)

32

SHEET 2 of 2

U. S. S. Lead Refinery, Inc.
300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

1 0 0 3 2 4 2 5
(8-7)
PERMIT NUMBER

0 9 1
(8-10)
OUTFALL/
FAC. NO.

0 5 3 4
(11-12) (13-14)
MO. YR.

ENTER:
1 for NIDES
2 for SIC-15
(15) 1

ENTER:
1 - INDUSTRY
4 - FEDERAL
5 - WATER
(16) 1

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO.	(17-21)	C	0095	C	0095	C	0	C	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		506		4		20		
	Daily Max. (37-44)		1012		8		50		
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5									
(6)			2.00		0.2		14		
7									
8									
9									
(10)			1.25		0.17		10		
11									
12									
13									
14									
15									
16									
(17)			2.00		0.23		16		
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
(29)			2.67		0.20		12		
30									
31									
AVERAGE (25-36)			1.98		0.20		13		
HIGHEST VALUE OF MONTH (37-44)			2.67		0.23		16		
LOWEST VALUE OF MONTH (45-52)			1.25		0.17		10		
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0		0		

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (DNR-1 FORM)

REPORT FOR SPC-15 OR NPDES DISCHARGE PERMIT

33

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
1300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN 0032425

(1-7)
PERMIT NUMBER

001

(8-10)
OUTFALL/
FAC. NO.

04 814

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUSTRIAL
4-FEDERAL
5-WATER S.

1
(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (17-21)		C	Q	C	Q	C	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Avg. (26-35)		506		4	20			
	Daily Max. (36-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
(2)			2.67		0.27	12			
3									
4									
5									
6									
7									
8									
9									
(10)			1.25		0.375	14			
11									
12									
13									
14									
15									
(16)			0.83		0.375	13			
17									
18									
19									
20									
21									
22									
(23)			0.50		0.18	15			
24									
25									
26									
(27)			2.50		0.375	13			
28									
29									
30									
31									
AVERAGE (28-36)			1.55		0.315	13			
HIGHEST VALUE OF MONTH (37-44)			2.67		0.375	15			
LOWEST VALUE OF MONTH (45-52)			0.50		0.18	12			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

SHEET 1 OF 2

34

APR 30 10 25 AM '81
ENTER:

1 for NPDES
2 for SPC-15

INDIANA STATE
BOARD OF HEALTH
DIVISION OF WATER
POLLUTION CONTROL

3-INDUSTRIAL
4-FEDERAL
5-WATERS

010312141215
(1-7)
PERMIT NUMBER

0011
(8-10)
OUTFALL/
FAC. NO.

03814
(11-12)(13-14)
MO. YR.

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic	
EFFLUENT NO. (17-21)		50050	6.00400		0.01051	0	0.01000	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	none						
	Daily Max. (37-44)	none	6-9-0		0.2		1.0	
UNITS		MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
DATE								
1								
2								
3								
4								
5								
(6)		0.05	6.6		0.44		0.4	
7								
8								
9								
10								
11								
(12)		0.05	6.7		0.53		0.3	
13								
14								
15								
(16)		0.05	Loss in Handling		0.55		0.5	
17								
18								
(19)		0.05	6.6		0.57		0.6	
20								
21								
22								
23								
24								
25								
26								
27								
(28)		0.04	6.7		0.33		0.2	
29								
30								
31								
AVERAGE (29-36)		0.05			0.48		0.4	
HIGHEST VALUE OF MONTH (37-44)		0.05	6.7		0.57		0.6	
LOWEST VALUE OF MONTH (45-52)		0.04		6.6	0.33		0.2	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0.		5		0.	

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF POLLUTION CONTROL AGENCY)

REPORT OF SIGNIFICANTES DISCHARGE (LTS)

35

SHEET 2 of 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

1X 0032425

(1-7)
PERMIT NUMBER

001

(F-10)
OUTFALL/
FAC. NO.

03 314

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1

(15)

ENTER:

1-INDUST
4-RESID
5-WATER

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (17-21)		C	0095	C	0095	00147	0	C	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		505		4	20			
	Daily Max. (37-44)		1012		6	50			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5									
(6)			2.09		0.34	8			
7									
8									
9									
10									
11									
(12)			1.25		0.38	10			
13									
14									
15									
(16)			3.00		0.267	13			
17									
18									
(19)			1.67		0.29	12			
20									
21									
22									
23									
24									
25									
26									
27									
(28)			1.57		0.234	10			
29									
30									
31									
AVERAGE (29-36)			1.94		0.35	10			
HIGHEST VALUE OF MONTH (37-44)			3.00		0.38	13			
LOWEST VALUE OF MONTH (45-52)			1.25		0.234	8			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			

72

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

36

010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

012 516

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1
(16)

1-INDUSTRIAL
4-FEDERAL
5-WATERS

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic	
EFFLUENT NO.	(17-21)	50050	00400		001051 9		001000 9	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	none						
	Daily Max. (37-44)	none	6-0-9-0		0.2		1.0	
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
4								
5								
6								
(7)		0.04	6.9		0.44		0.2	
8								
9								
10								
11								
12								
(13)		0.03	6.3		0.47		0.2	
14								
15								
16								
17								
18								
19								
20								
(21)		0.05	6.6		0.45		0.2	
22								
23								
24								
25								
26								
(27)		0.04	6.5		0.40		0.2	
28								
29								
30								
31								
AVERAGE (29-36)		0.04			0.44		0.22	
HIGHEST VALUE OF MONTH (37-44)		0.05	6.9		0.47		0.2	
LOWEST VALUE OF MONTH (45-52)		0.03		6.3	0.40		0.2	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)		0	0		4		0	

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

73

37

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN	0032425
----	---------

(1-7)
PERMIT NUMBER

952

(E.O.)
OUTFALL/
TAC.NO.

0 2 3 4

11-20-63
D.O. Y.R.

ENTER:

1 for AIDS
2 for SIC-25

1

(: 5)

ENTER:

1

(1E)

1 - INFO
4 - FILE
5 - WARE

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (12-21)		c	0095	c	00951	00957	0	c	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	DaBy Act. (26-36)		505		4	20			
	DaBy Act. (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
1									
2									
3									
4									
5									
6									
(7)					0.27	10			
8									
9									
10									
11									
12									
(13)			0.75		0.15	13			
14									
15									
16									
17									
18									
19									
20									
(21)			1.67		0.24	14			
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
AVERAGE (26-36)			1.5		0.25	13			
HIGHEST VALUE OF MONTH (37-44)			2		0.23	15			
LOWEST VALUE OF MONTH (45-52)			0.75		0.15	10			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-64)			0		0	0			

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

38

000312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

011 314

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUST.
4-FEDERAL
5-WATER

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	Pb		Lead		Arsenic	
EFFLUENT NO. (17-21)		50050	00450		001051 9		001000 9	
SAMPLE TYPE (22-23)	Permit Cond.		GR	GR	GR	GR	GR	
	Monitored		GR	GR	GR	GR	GR	
FREQUENCY (24-28)	Permit Cond.		1/7	1/7	1/7	1/7	1/7	
	Monitored		1/7	1/7	1/7	1/7	1/7	
EFFLUENT LIMITATIONS	DeBy Avg. (24-36)	none						
	DeBy Max. (37-44)	none	6-0-5-0	0.2		1.0		
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
4								
5								
(6)		0.02	6.7		0.55		0.2	
7								
8								
9								
10								
11								
12								
13								
14								
15								
(16)		0.02	6.5		0.47		0.1	
17								
18								
19								
20								
21								
22								
(23)		0.02	6.6		0.49		0.09	
24								
25								
26								
27								
28								
29								
(30)		0.02	6.3		0.42		0.10	
31								
AVERAGE (29-36)		1.0			0.48		0.12	
HIGHEST VALUE OF MONTH (37-44)		0.02	6.7		0.55		0.20	
LOWEST VALUE OF MONTH (45-52)		0.02	6.3		0.42		0.09	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)		0					0	

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

75

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING REPORT FOR SPC-15 OR NPDES DISCHARGE PERMIT

39

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 26TH OF THE FOLLOWING MONTH.

IN 0032425

(1-7)
PERMIT NUMBER

002

(E-10)
OUTFALL/
FAC. NO.

0154

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1

(15)

ENTER:

1 - INDUSTRIAL
4 - FEDERAL
5 - WATER SUPPLY

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (17-21)		C	0095	C	00951	C	0	C	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	DrBy Avg. (29-36)		506		4	20			
	Daily Max (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5									
(6)			0.33		0.13	14			
7									
8									
9									
10									
11									
12									
13									
14									
15									
(16)			0.50		0.11	15			
17									
18									
19									
20									
21									
22									
(23)			0.00		0.13	16			
24									
25									
26									
27									
28									
29									
(30)			0.33		0.11	12			
31									
AVERAGE (39-36)			0.29		0.11	13.5			
HIGHEST VALUE OF MONTH (37-44)			0.50		0.11	16			
LOWEST VALUE OF MONTH (45-52)			0.00		0.11	12			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

SHEET 1 OF 2

40.

1010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

112 513

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-35

1
(15)

ENTER:

3-INDUSTRIAL
4-FEDERAL
5-WATER

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic			
EFFLUENT NO. (17-21)		50050	00400		01051		01000			
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	DaBy Avg. (24-36)	none								
	DaBy Max. (37-44)	none	6-0-9-0		0.2		1.0			
DATE		MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day		
1										
(2)		0.04	6.3		0.50		0.2			
3										
4										
5										
6										
7										
8										
9										
10										
11										
(12)		0.04	6.8		0.30		0.1			
13										
14										
15										
(16)		0.03	6.8		0.28		0.2			
17										
18										
19										
20										
21										
22										
(23)		0.04			0.29		0.3			
24										
25										
26										
27										
28										
29										
(30)		0.04	6.0		0.25		0.2			
31										
AVERAGE (25-36)					0.32		0.2			
HIGHEST VALUE OF MONTH (37-44)			6.8		0.50		0.3			
LOWEST VALUE OF MONTH (45-52)				6.0	0.25		0.2			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0.		5		0.			

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE)

REPORT FOR SPECIAL MONITORING TREATMENT UNITS

41

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
303 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN 0,0,3,2,4,2,5

(1-7)
PERMIT NUMBER

0,0,1

(E-10)
OUTFALL/
FAC. NO.

1,2,8,1,3

(11-12) (13-14)
MO. YR.

ENTER:

1 for NIDES
2 for SDC-35

1

(15)

ENTER:

1-INDIAN
4-FEDER
5-WATER

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO.	(17-21)	C	0095	C	00951	C	0	C	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	DiBy Avg. (29-36)		505		4	70			
	DiBy 2.5 (37-44)		1012		8	40			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
(2)			1.00		0.300	12			
3									
4									
5									
6									
7									
8									
9									
10									
11									
(12)			1.335		0.26	14			
13									
14									
15									
(16)			0.25		0.220	16			
17									
18									
19									
20									
21									
22									
(23)			0.68		0.175	15			
24									
25									
26									
27									
28									
29									
(30)			0		0.300	11			
31									
AVERAGE (29-36)			0.65		0.251	13.6			
HIGHEST VALUE OF MONTH (37-44)			1.00		0.300	16			
LOWEST VALUE OF MONTH (45-52)			0.25		0.175	11			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			8

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

0101312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

111313

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUST.
4-FEDERAL
5-WATER S

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic			
EFFLUENT NO. (17-21)		50050	00400		01051	0	01000	0		
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	DoBy Avg. (24-36)	none								
	DoBy Max. (27-44)	none	6-9-0		0.2		1.0			
DATE	UNITS	MGD	HIGH	LOW	mg/l	lb/day	mg/l	lb/day		
1										
2										
3										
4		0.03	6.9		0.49		0.2			
5										
6										
7										
8										
9										
10		0.03	6.5		0.50		0.3			
11										
12										
13										
14										
15										
16										
17										
18		0.05	6.5		0.47		0.2			
19										
20										
21										
22										
23										
24										
25		0.05	6.5		0.46		0.2			
26										
27										
28										
29										
30										
31										
AVERAGE (29-36)		0.04			2.48		0.225			
HIGHEST VALUE OF MONTH (37-44)		0.05	6.9		2.50		0.3			
LOWEST VALUE OF MONTH (45-52)		0.03	6.5		0.46		0.2			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		4					

(SIGNATURE OF CERTIFIED OPERATOR (55))

(66) (SIGNATURE OF PRINCIPAL EXECUTIVE)

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (DMS) FORM REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

93

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT 7-0 COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN 0032425

(1-7)
PERMIT NUMBER

001

(8-10)
OUTFALL/
FAC. NO.

1 1

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1 - INDUSTRY
4 - FEDERAL
5 - WATER SUPPLY

1
(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (17-21)		C	Q	C	Q	C	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		506		4		20		
	Daily Max. (37-44)		1012		8		30		
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5									
6									
7			245		4.00		51.2		
8									
9									
10									
11									
12									
13									
14									
15			229		4.00		43.5		
16									
17									
18									
19									
20									
21									
22			176		2.87		12.0		
23									
24									
25									
26									
27									
28			78		1.36		12.9		
29									
30									
31									
AVERAGE (29-36)			182		3.05		29.9		
HIGHEST VALUE OF MONTH (27-44)			245		4.00		51.2		
LOWEST VALUE OF MONTH (45-52)			78		1.36		12.0		
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0		2		

FEB 25 11 05 AM '83
INDIANA STREAM POLLUTION CONTROL BOARD
DIVISION OF WATER
PHILIPPIAN BUILDING

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

44

010312141215

(1-7)

PERMIT NUMBER

0011

(8-10)

OUTFALL/
FAC. NO.

10 813

(11-12)(13-14)

MO. YR.

ENTER:

1 for NPDES
2 for SPC-151
(15)

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER SUP1
(16)

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic	
EFFLUENT NO. (17-21)		50050	00400		c01051		c 01000	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	DaBy Avg. (24-36)	none						
	DaBy Max. (37-44)	none	5-0-9-0		0-2		1-0	
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
4								
5								
6								
7								
8								
(9)		0.04	5.3		0.53		0.3	
10								
11								
12								
13								
(14)		0.05	6.8		0.55		0.5	
15								
16								
17								
18								
19								
20								
(21)		0.03	7.5		0.57		0.4	
22								
23								
24								
25								
26								
27								
(28)		0.04	5.7		SAMPLE LOST IN SHIPPING.			
29								
30								
31								
AVERAGE (29-36)		0.04			0.55		0.4	
HIGHEST VALUE OF MONTH (37-44)		0.05	7.5		0.57		0.5	
LOWEST VALUE OF MONTH (45-52)		0.03		6.3	0.53		0.3	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)		0	0		3		0	

(SIGNATURE OF CERTIFIED OPERATOR (55))

210-200-1012

XXXX 7663

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (OWNER FORM) REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

45

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 26TH OF THE FOLLOWING MONTH.

I N 0 0 3 2 4 2 5

(2-7)
PERMIT NUMBER

0 0 1

(8-10)
OUTFALL/
FAC. NO.

1 1 0 8 1 3

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1

(15)

ENTER:

1 - INDUSTRY
4 - FEDERAL
5 - WATER SUPPLY

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids				
EFFLUENT NO. (17-21)		C	Q	C	Q	C	Q	C	Q	
SAMPLE TYPE (22-23)	Permit Cond.		0095		0095					
	Monitored		GR		GR					
FREQUENCY (24-25)	Permit Cond.		1/7		1/7					
	Monitored		1/7		1/7					
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		505		4		20			
	Daily Max. (37-44)		1012		8		30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	
DATE										
1										
2										
3										
4										
5										
6										
7										
8										
(9)			2.670		0.267		15			
10										
11										
12										
13										
(14)			2.920		0.375		16			
15										
16										
17										
18										
19										
20										
(21)			1.502		0.200		18			
22										
23										
24										
25										
26										
27										
(28)			SAMPLE LOST IN SHIPPING							
29										
30										
31										
AVERAGE (29-36)			2.364		0.280		16.33			
HIGHEST VALUE OF MONTH (37-44)			2.920		0.375		18			
LOWEST VALUE OF MONTH (45-52)			1.502		0.200		15			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0		0			

82

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

SHEET 1 OF 2

11N 010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

91-813

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER SUPPLY

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic		
EFFLUENT NO. (17-21)		50050	00400		0.1051	g	0.01000	g	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	DeBy Avg. (24-36)	none							
	DeBy Max. (37-44)	none	6-0-9-0		0.2		1.0		
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day	
1									
2									
3									
4									
5									
6									
7		.03	5.8		.19		.020		
8									
9									
10									
11									
12									
13									
14		.03	6.0		1.4		.019		
15									
16									
17									
18									
19									
20									
21									
22		.04	6.10		.15		.005		
23									
24									
25									
26									
27									
28		.02	6.30		.07		.005		
29									
30									
31									
AVERAGE (29-36)		.03			0.4		.012		
HIGHEST VALUE OF MONTH (37-44)		.04			1.4		.020		
LOWEST VALUE OF MONTH (45-52)		.02	5.80		.07		.005		
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			1		1		0		

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF THE STATE)

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (DME-1 FORM) REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

47

SHEET 2 OF 2

V. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

15 0 0 3 2 4 2 5

(1-7)
PERMIT NUMBER

0 0 1

(8-10)
OUTFALL/
FAC. NO.

0 9 5 3

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1 - INDUSTRY
4 - FEDERAL
5 - WATER SL.

1
(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO.	(17-21)	C	0095	C	00951	C	0	C	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		506		4	20			
	Daily Max. (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
(2)			2.00		0.175	18			
3									
4									
5									
6									
7									
8									
(9)			2.33		0.100	22			
10									
11									
12									
13									
14									
15									
(16)			2.50		0.375	24			
17									
18									
19									
20									
21									
22									
(23)			2.67		0.100	26			
24									
25									
26									
27									
28									
29									
(30)			2.00		0.166	21			
31									
AVERAGE (22-36)			2.30		0.153	22.2			
HIGHEST VALUE OF MONTH (37-44)			2.67		0.375	26			
LOWEST VALUE OF MONTH (45-52)			2.00		0.100	15			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

SEP 15 10 29 AM '63

IN 010312141215

(1-7) PERMIT NUMBER

0011

(8-10) OUTFALL/ FAC. NO.

018513

(11-12)(13-14) MO. YR.

ENTER: INDIANAPOLIS BOARD OF HEALTH DIVISION OF WATER POLLUTION CONTROL

ENTER:

1 (16)

1-INDUSTRY
4-FEDERAL
5-WATER SUPPLY

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic			
EFFLUENT NO. (17-21)		50050	00400		01051	g	01000	g		
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	none								
	Daily Max. (37-44)	none	6-0-9-0		0.2		1.0			
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day		
1										
2										
3										
4										
(5)		0.04	6.9		0.75		0.5			
6										
7										
8										
9										
10										
11										
(12)		0.04	6.7		0.68		0.6			
13										
14										
15										
16										
17										
18										
(19)		0.05	6.4		0.70		0.5			
20										
21										
22										
23										
24										
25										
(26)		0.04	6.5		0.72		0.6			
27										
28										
29										
30										
31										
AVERAGE (29-36)		0.04			0.71		0.55			
HIGHEST VALUE OF MONTH (37-44)		0.05			0.75		0.6			
LOWEST VALUE OF MONTH (45-52)		0.04	6.4		0.68		0.5			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		4		0			

(SIGNATURE OF CERTIFIED OPERATOR (55))

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AGENCY RESPONSIBLE (56))

U. S. S. Lead Refinery, Inc.
5900 Kennedy Avenue
Chicago, Indiana 46312

PLEASE COMPLETE AND RETURN TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STATE POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN 0032425

(1-7)
PERMIT NUMBER

GG1

(8-10)
OUTFALL/
FAC. NO.

018813

(11-12) (13-14)
MO. YR.

ENTER:

2-INDUSTRIES
3-AGRICULTURE

1

(15)

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER SUPPLY

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sols. Solids			
EFFLUENT NO. (17-21)		C	Q (0095)	C	Q (0095)	C (0095)	Q	C	Q
SAMPLE TYPE (22-23)	From Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-25)	From Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Ave (26-28)		505		4	20			
	Daily Max (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
(5)			2.00		0.16	19			
6									
7									
8									
9									
10									
11									
(12)			2.33		0.30	17			
13									
14									
15									
16									
17									
18									
(19)			2.92		0.33	15			
20									
21									
22									
23									
24									
25									
(26)			2.00		0.23	17			
27									
28									
29									
30									
31									
AVERAGE (29-36)			2.31		0.25	17			
ST. VALUE OF MONTH (37-44)			2.92		0.33	19			
LOWEST VALUE OF MONTH (45-52)			2.00		0.16	15			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-64)			0		0	0			

Lead Refinery, Inc.
 dy Avenue
 go, Indiana 46312

SHEET 1 of 2

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

END OF
 STREAM POLL
 OF THE MONTH

12/4/215

0011

017 313

NUMBER

(8-10)
 OUTFALL/
 FAC. NO.

(11-22)(3-14)
 MO. YR.

ENTER:

1 for NPDES
 2 for SPC-15

1
 (15)

ENTER:

1-INDUSTRY
 4-FEDERAL
 5-WATER SUPPLY

1
 (16)

R:

1-INDUSTRY
 4-FEDERAL
 5-WATER SUPPLY

CHARACTERISTICS		FLC#	PH	Lead		Arsenic	
NO.	(17-21)	SC050	06400	01051	q	01000	q
PE	Permit Cond.		GR	GR		GR	
	Monitored		GR	GR		GR	
	Permit Cond.		1/7	1/7		1/7	
	Monitored		1/7	1/7		1/7	
S	DaBy Avg. (24-36)	none					
	DaBy Max. (37-44)	none	6-0-9-0	0.2		1.0	
UNITS		MGD	HI LOW	mg/l	lb/day	mg/l	lb/day
(1)		0.03	7.0	0.50		0.4	
2							
3							
4							
5							
6							
7							
(8)		0.03	6.5	0.53		0.5	
9							
10							
11							
12							
13							
14							
(15)		0.04	7.2	0.25		0.3	
16							
17							
18							
19							
20							
21							
(22)		0.04	7.0	0.63		0.4	
23							
24							
25							
26							
27							
28							
(29)		0.03	7.0	0.55		0.5	
30							
31							
(29-36)				0.495		0.420	
AVE OF MONTH (37-44)			7.1	0.63		0.5	
AVE OF MONTH (45-52)			6.8	0.25		0.3	
MAX. EFFLUENT EXCEEDED (53-54)			0	5		0	

CERTIFIED OPERATOR (55)

(60) SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

5/

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STAFF AND UNION CONTROL BOARD OFFICE BY THE 10TH OF THE FOLLOWING MONTH.

1 - Bureau
4 - Field
5 - WASH.

(:5)

(15)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total S.S.Solids	
EFFLUENT NO.	(27-31)	c	0095	c	00951	c	00951
SAMPLE TYPE (22-23)	Fresh Cond.		GR		GR		GR
	Monitored		GR		GR		GR
FREQUENCY (24-25)	Fresh Cond.		1/7		1/7		1/7
	Monitored		1/7		1/7		1/7
EFFLUENT LIMITATIONS	Daily Avg. (29-35)		505		4		20
	Daily Max (37-44)		1012		8		30
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
1							
2							
(3)			1.00		0.250		19
4							
5							
6							
7							
8							
(16)			2.00		0.150		18
17							
(17)			1.00		0.166		15
18							
19							
20							
21							
22							
23							
(24)			4.33		0.166		20
25							
26							
27							
28							
29							
30							
31							
AVG	(27-36)		2.08		0.170		18
HIGHEST VALUE OF MONTH	(37-44)		4.33		0.250		20
LOWEST VALUE OF MONTH	(45-52)		1.00		0.116		15
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED	(53-54)		0		0		0

JUL 22 4 13 PM '83
INDIAN: STATE
- OREGON
DIVISION
POLICE

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

SHEET 1 OF 2

52

010931241215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

015813

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER SUPPLY

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic			
EFFLUENT NO. (17-21)		50050	00400		001051		001000			
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	none								
	Daily Max. (37-44)	none	6-0-9-0		0.2		1.0			
UNITS		MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day		
DATE										
1										
2										
3										
4										
5										
6		0.03	6.6		0.25		(1.0)			
7										
8										
9										
10										
11										
12										
13										
14		0.04	6.5		0.50		(1.0)			
15										
16										
17										
18										
19										
20		0.02	6.3		0.75		(1.0)			
21										
22										
23										
24										
25										
26										
27		0.04	6.9		0.52		(1.0)			
28										
29										
30										
31										
AVERAGE (29-36)		0.03			0.50		1			
HIGHEST VALUE OF MONTH (37-44)		0.04	6.9		0.75		1			
LOWEST VALUE OF MONTH (45-52)		0.02	6.3		0.25		1			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		4		0			

(SIGNATURE OF CERTIFIED OPERATOR (55))

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (56)

INVESTIGATION OF POLLUTION CONTROL BOARD BY MONTHLY MONITORING
 REPORT NO. 15 OR NILES DISCHARGE 15

53

SHEET 2 OF 2

H. S. S. Lead Refinery, Inc.
 300 Kennedy Avenue
 East Chicago, Indiana 46312

PLEASE COMPLETE AND RETURN TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STEAMBOAT COMMISSION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

IN 0032425

(1-7)
 PERMIT NUMBER

001

(8-10)
 OUTFALL/
 FAC. NO.

015813

(11-12) (13-14)
 MO. YR.

ENTER:

1-INDUST.
 2-SEWAGE

1

(15)

ENTER:

1-INDUST.
 4-FERROUS
 5-WATER

1

(15)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids	
AFFLUENT NO. (12-13)		C	GR	C	GR	C	GR
SAMPLE TYPE (12-13)	Permit Cond.		GR		GR		GR
FREQUENCY (14-15)	Permit Cond.		1/7		1/7		1/7
	Monitored		1/7		1/7		1/7
EFFLUENT LIMITATIONS	Day Ave. (16-18)		506		4		20
	Day Max (19-21)		1012		8		30
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE							
1							
2							
3							
4							
5							
(6)			0.75		0.25		26
7							
8							
9							
10							
11							
12							
13							
(14)			2.00		0.33		34
15							
16							
17							
18							
19							
(20)			0.50		0.17		20
21							
22							
23							
24							
25							
26							
(27)			2.33		0.33		22
28							
29							
30							
31							
AVERAGE (28-31)			1.39		0.27		25.5
HIGHEST VALUE OF MONTH (32-34)			2.33		0.33		34
LOWEST VALUE OF MONTH (35-37)			0.50		0.17		20
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (38-40)			0		0		1

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

SHEET 1 OF 2

MAY 31

9 27 1972

IN 010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

014 E 13

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

ENTER:

3-INDUSTRY
4-FEDERAL
5-WATER SUPPLY

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic	
EFFLUENT NO. (17-21)		50053	6.9-7.1		0.1051 g		0.01000 g	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Ave. (24-36)	none						
	Daily Max. (37-44)	none	6.0-9.0		0.2		1.0	
DATE	UNITS	MGD	HIGH	LOW	mg/l	lb/day	mg/l	lb/day
(1)		0.02	6.9		0.15		0.011	
2								
3								
4								
5								
6								
7								
(8)		0.04	7		0.40		0.01	
9								
10								
11								
12								
13								
14								
(15)		0.03	7		0.85		0.008	
16								
17								
18								
19								
20								
21								
(22)		0.03	7.1		0.15		0.008	
23								
24								
25								
26								
27								
28								
(29)		0.04	7.7		0.58		0.016	
30								
31								
AVERAGE (29-36)			7.7		0.426		0.01	
HIGHEST VALUE OF MONTH (37-44)			7.7		0.85		0.016	
LOWEST VALUE OF MONTH (45-52)			6.9		0.15		0.008	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		3		0	

(SIGNATURE OF CERTIFIED OPERATOR) (51)

(60) (SIGNATURE OF PRINCIPAL ENGINEER)

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (CONR-1 FORM) REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

I S C 3 2 4 2 5

(3-7)
PERMIT NUMBER

0 0 1

(8-10)
OUTFALL/
FAC. NO.

1 1

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1 - INDUSTRIAL
4 - FEDERAL
5 - WATER SUPPLY

1
(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (17-21)		C	Q0095	C	Q0951	C	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-25)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Ave. (29-36)		506		4	20			
	Daily Max (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE (1)			34.16		1.0	8.2			
2									
3									
4									
5									
6									
7									
(8)			53.4		2.0	7.2			
9									
10									
11									
12									
13									
14									
(15)			50		1.7	11			
16									
17									
18									
19									
20									
21									
(22)			145.6		2.2	25.1			
23									
24									
25									
26									
27									
28									
(29)			137.5		2.5	12.7			
30									
31									
AVERAGE (29-36)			84		1.53	12.8			
HIGHEST VALUE OF MONTH (37-44)			145.6		2.5	25.1			
LOWEST VALUE OF MONTH (45-52)			34.16		1	7.2			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 26TH OF THE FOLLOWING MONTH.

N 010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

013813

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1
(16)

1-INDUSTRIAL
4-FEDERAL
5-WATER SL

EFFLUENT CHARACTERISTICS		FLOW	pH		Lead		Arsenic	
EFFLUENT NO. (17-21)		50050	00450		01051		01000	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	none						
	Daily Max. (37-44)	none	6-0-9-0		0.2		1.0	
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
(4)		0.03	6.9		0.14		0.025	
5								
6								
7								
8								
9								
10								
(11)		0.02	7.0		0.08		(0.005)	
12								
13								
14								
15								
16								
17								
(18)		0.04	6.8		0.26		0.005	
19								
20								
21								
22								
23								
24								
(25)		0.03	7.1		0.19		0.01	
26								
27								
28								
29								
30								
31								
AVERAGE (25-36)		0.6	7.1		0.167		0.011	
HIGHEST VALUE OF MONTH (37-44)		0.0	7.1		0.26		0.025	
LOWEST VALUE OF MONTH (45-52)		0.0	7.1		0.08		0.005	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		1		0	

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 2 of 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

1 0 0 3 2 4 2 5

(1-7)
PERMIT NUMBER

0 0 1

(8-10)
OUTFALL/
FAC. NO.

0 1 3 8 1 3

(11-22) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1

(15)

ENTER:

1 - INDUSTRIAL
4 - FEDERAL
5 - WATER SUPPLY

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus.Solids				
EFFLUENT NO. (17-21)		C	0095	C	00951	00951	Q	C	Q	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR				
	Monitored		GR		GR	GR				
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7				
	Monitored		1/7		1/7	1/7				
EFFLUENT LIMITATIONS	Daily Ave. (29-36)		506		4	20				
	Daily Max. (37-44)		1012		8	30				
UNITS			mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE										
1										
2										
3										
(4)			147		3.0	10.3				
5										
6										
7										
8										
9										
10										
(11)			101		1.7	9.2				
12										
13										
14										
15										
16										
17										
(18)			39		1.5	6.9				
19										
20										
21										
22										
23										
24										
(25)			36		1.25	4.4				
26										
27										
28										
29										
30										
31										
AVERAGE (29-36)			30.75		1.86	7.7				
HIGHEST VALUE OF MONTH (37-44)			147		3.0	10.3				
LOWEST VALUE OF MONTH (45-52)			36		1.25	4.4				
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0				

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

SHEET 1 OF 2

IN 010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

012813

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER S.

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic	
EFFLUENT NO.	(17-21)							
SAMPLE TYPE	Permit Cond.	50050	00400	01051	0	01000	0	
(22-23)	Monitored			GR		GR		
FREQUENCY	Permit Cond.			1/7		1/7		
(24-25)	Monitored			1/7		1/7		
EFFLUENT LIMITATIONS	DaBy Av. (24-36)	none						
	DaBy Max. (37-44)	none	6-0-9-0	0.2		1.0		
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
(4)		0.04	6.1		0.71		0.015	
5								
6								
7								
8								
9								
10								
(11)		0.015	6.8		0.60		0.008	
12								
13								
14								
15								
16								
17								
(18)		0.03	6.4		0.13		0.005	
19								
20								
21								
22								
23								
24								
(25)		0.04	6.7		0.14		0.035	
26								
27								
28								
29								
30								
31								
AVERAGE	(25-36)	0.03			0.395		0.015	
HIGHEST VALUE OF MONTH	(37-44)	0.04			0.71		0.035	
LOWEST VALUE OF MONTH	(45-52)	0.015			0.13		0.005	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED	(53-54)	0	0		2		0	

(SIGNATURE OF CERTIFIED OPERATOR (55))

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

SHEET 2 OF 2

IN 0032425

(1-7)
PERMIT NUMBER

932

(8-10)
OUTFALL/
FAC NO.

012 513

(11-12)(13-14)
MO. YR.

ENTER:

1 for NIDES
2 for SEC-15

1

(15)

ENTER:

1

(16)

1 - INDIANA
4 - FEDERAL
5 - WATER

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Diss. Solids	
EFFLUENT NO. (17-21)		C	Q	C	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR
	Monitored		GR		GR		GR
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7
	Monitored		1/7		1/7		1/7
EFFLUENT LIMITATIONS	Daily Avg. (26-35)		555		4		20
	Daily Max. (36-44)		1012		8		30
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE							
1							
2							
3							
(4)			178.9		3.3		16.4
5							
6							
7							
8							
9							
10							
(11)			74.8		1.5		13.6
12							
13							
14							
15							
16							
17							
(18)			71.8		2.8		2.7
19							
20							
21							
22							
23							
24							
(25)			284.5		4.0		22.8
26							
27							
28							
29							
30							
31							
AVERAGE (35-36)			152.5		2.9		13.87
EST. VALUE OF MONTH (37-44)			284.5		4.0		22.8
EST. VALUE OF MONTH (45-52)			71.5		1.5		2.7
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0		0

INDIANA STATE
DIVISION OF WATER
POLLUTION CONTROL

APR 14 11 35 AM '83

INDUSTRIAL WASTE REPORT (IWR) FOR THE MONTH OF _____ 19____

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
5810 Kennedy Avenue
East Chicago, Indiana 46312

THIS REPORT IS TO BE SUBMITTED TO THE REGIONAL OFFICE OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) BY THE 15TH OF THE FOLLOWING MONTH.

15002425

(1-7)
PERMIT NUMBER

GG1

(8-10)
OUTFALL/
FAC. NO.

11193

(11-14) (15-14)
MO. YR.

ENTER:

1-INDUSTRIAL
2-AGRICULTURE
3-OTHER

1

(15)

ENTER:

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sols. Solids	
EFFLUENT NO. (11-14)		C	GR	C	GR	C	GR
SAMPLE TYPE (20-23)	From Cond. / Monitored		GR		GR		GR
FREQUENCY (24-25)	From Cond. / Monitored		1/7		1/7		1/7
EFFLUENT LIMITATIONS	DDA Amt. (26-28)		505		4		20
	DDA Vol. (29-31)		1012		8		30
UNITS		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
DATE							
1							
2							
3							
4			2.25		0.25		13
5							
6							
7							
8							
9							
10			2.00		0.175		15
11							
12							
13							
14							
15							
16							
17							
18			2.50		0.33		12
19							
20							
21							
22							
23							
24							
25			1.25		0.150		15
26							
27							
28							
29							
30							
31							
AVERAGE (32-36)			2.00		0.238		13.75
10% MAX. VALUE OF MONTH (37-40)			2.50		0.33		15
10% MIN. VALUE OF MONTH (41-44)			1.25		0.15		12
NO. OF DAYS MAX. EFFLUENT LIMITATIONS EXCEEDED (45-48)			0		0		0

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

01031241215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

112812

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-161
(15)

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER SU1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic	
EFFLUENT NO. (17-21)		50050	00400		001051	0	001000	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Ave. (24-36)	none	6-0-9-0		0.2		1.0	
	Daily Max. (37-44)	none						
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
(3)		.02	6.10		3.11		.020	
4								
5								
6								
7								
8								
9								
(10)		.02	5.95		.26		.018	
11								
12								
13								
14								
15								
16								
17								
18								
19								
(20)		.04	6.10		.21		.010	
21								
22								
23								
(24)		.03	5.70		.23		.015	
25								
26								
27								
28								
29								
30								
(31)		.03	5.80		.38		.030	
AVERAGE (29-36)		.02			1.46		0.01	
HIGHEST VALUE OF MONTH (37-44)		.04	6.10		3.11		.030	
LOWEST VALUE OF MONTH (45-52)		.02	5.70		.21		.010	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			3		5			

(SIGNATURE OF CERTIFIED OPERATOR (55))

(62) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

11N 01G312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

111 312

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

3-INDUSTRY
4-FEDERAL
5-WATER SUP

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic		
EFFLUENT NO. (17-21)		50050	7.0-9.0		0.051 g		0.01000 g		
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	Daily Ave. (24-36)	none							
	Daily Max. (37-44)	none	6-9-0		0.2		1.0		
DATE	UNITS	MGD	H1	LOW	mg/l	lb/day	mg/l	lb/day	
1									
2									
3									
4									
5		0.06	6.0		0.10		.008		
6									
7									
8									
9									
10									
11									
12		0.01	2.9		3.62		.28		
13									
14									
15									
16									
17									
18									
19		0.06	5.60		0.07		.44		
20									
21									
22									
23									
24									
25									
26		0.03	5.65		0.10		.44		
27									
28									
29									
30									
31									
AVERAGE (29-36)		0.04			0.97		.29		
HIGHEST VALUE OF MONTH (37-44)		0.06			3.62		.44		
LOWEST VALUE OF MONTH (45-52)		0.01			0.07		.008		
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)		0	3		1		0		

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

REPORT FOR SIC 15 OR NIDES DISTANCE PERMITS

SHEET 2 OF 3

V. S. S. Lard Refinery, Inc.
5100 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STEEL INDUSTRY POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

1 0 0 3 2 4 2 5

(1-7)
PERMIT NUMBER

0 0 1

(8-10)
OUTFALL/
FAC. NO.

1 1 8 1 2

(11-12) (13-14)
MO. YR.

ENTER:

1 for NIDES
2 for SIC-15

1

(15)

ENTER:

1-INDUSTRIAL
4-SEWAGE
5-WATER

1

(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO.	(17-21)	C	Q	C	Q	C	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	Disch. Act. (26-36)		505		4		20		
	Disch. Act. (37-44)		1012		8		30		
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5		310.13			3.0		15.8		
6									
7									
8									
9									
10									
11									
12		84.85			0.35		5.3		
13									
14									
15									
16									
17									
18									
19		290.40			2.70		23.2		
20									
21									
22									
23									
24									
25									
26		155.86			1.5		13.6		
27									
28									
29									
30									
31									
AVERAGE (32-36)		210.31			1.88		15.72		
HIGHEST VALUE OF MONTH (37-40)		310.13			3.0		23.2		
LOWEST VALUE OF MONTH (41-42)		84.85			0.35		5.3		
NO. OF TIMES MAX. EFFLUENT LIMIT WAS EXCEEDED (43-44)		0			0		0		

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 28TH OF THE FOLLOWING MONTH.

11N 010312141215

(1-7)
PERMIT NUMBER

0011

(8-10)
OUTFALL/
FAC. NO.

110 812

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

3-INDUST.
4-FEDERAL
5-WATER SI

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	PH		Lead		Arsenic	
EFFLUENT NO.	(17-21)							
SAMPLE TYPE	Permit Cond.		GR		GR		GR	
(22-23)	Monitored		GR		GR		GR	
FREQUENCY	Permit Cond.		1/7		1/7		1/7	
(24-28)	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	none						
	Daily Max. (37-44)	none	6-0-9-0		0.2		1.0	
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
4		.015	7.4		.14		.042	
5								
6								
7								
8		.03	7.1		.20		.025	
9								
10								
11								
12								
13								
14								
15		.07	7.15		.39		.015	
16								
17								
18								
19								
20								
21								
22		.04	6.35		.10		.005	
23								
24								
25								
26								
27								
28								
29		.24	6.46		.12		.016	
30								
31								
AVERAGE	(29-36)	.03			.19		.02	
HIGHEST VALUE OF MONTH	(37-44)	.27			.39		.042	
LOWEST VALUE OF MONTH	(45-52)	.015			.10		.005	
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED	(53-54)	0			1			

(SIGNATURE OF CERTIFIED OPERATOR (55))

(60) (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OF AUTHORIZED AGENCY)

101

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING REPORT

(FORM 1 FOR 11) SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 2 OF 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

I N 0 0 3 2 4 2 5

(1-7)
PERMIT NUMBER

0 0 1

(8-10)
OUTFALL/
FAC. NO.

1 0 9 1 2

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1

(15)

ENTER:

1

(16)

1 - INDUSTRIAL
4 - FEDERAL
8 - WATER SUPPLY

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO.	(17-21)	C	0095	C	00951	CRIT. C	C	C	C
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		506		4	20			
	Daily Max. (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4			52.25		.42	7.0			
5									
6									
7									
8			88.47		.82	5.0			
9									
10									
11									
12									
13									
14									
15			168.20		1.97	3.8			
16									
17									
18									
19									
20									
21									
22			404.4		1.45	11.9			
23									
24									
25									
26									
27									
28									
29			177.5		1.03	1.3			
30									
31									
AVERAGE (29-36)			175.1		1.13	5.8			
HIGHEST VALUE OF MONTH (37-44)			404.4		1.97	11.9			
LOWEST VALUE OF MONTH (45-52)			52.25		.42	1.3			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0	0			

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 2 of 2

U. S. S. Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT TWO COPIES AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

IN 0032425
(1-7)
PERMIT NUMBER

001
(5-10)
OUTFALL/
FAC. NO.

09 8 2
(11-12) (13-14)
MO. YR.

ENTER:
1 for NPDES
2 for SPC-15 **1**
(15)

ENTER:
1 - INDUSTRIAL
4 - FEDERAL
5 - WATER
1
(16)

EFFLUENT CHARACTERISTICS		Sulfate		Fluoride		Total Sus. Solids			
EFFLUENT NO. (17-21)		c	0095	c	00951	c		c	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		506		4	20			
	Daily Max (37-44)		1012		8	20			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3			3.82		.06	Due to			
4						Insufficient			
5						Quantity of			
6						Samples			
7						Analysis was			
8						Not Possible			
9						Will Include			
10			2.09		.02	on next month's			
11						report			
12									
13									
14									
15									
16									
17									
18									
19									
20			12.32		.03				
21									
22									
23									
24									
25									
26									
27			24.75		.33				
28									
29									
30									
31									
AVERAGE (29-36)			10.75		.11				
HIGHEST VALUE OF MONTH (37-44)			24.75		.33				
LOWEST VALUE OF MONTH (45-52)			2.09		.02				
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0				

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY MONITORING (SHORT FORM)
REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 1 OF 2

S. S. Lead Refinery, Inc.
1000 Kennedy Avenue
East Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

APR 30 5 52 AM '81
ENTERED
1 for NPDES
2 for SPC-15

ENTER:

1-INDUSTRY
4-FEDERAL
5-WATER SUPPLY

11N 0101312141215

(1-7)
PERMIT NUMBER

01011

(8-10)
OUTFALL/
FAC. NO.

0121811

(11-12)(13-14)
MO. YR.

1
(15)

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(16)

EFFLUENT CHARACTERISTICS		FLOW	pH		LEAD		ARSENIC	
EFFLUENT NO. (17-21)		Q 50050	C 00400		C 05119		C 01000 0	
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR	
	Monitored		GR		GR		GR	
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7	
	Monitored		1/7		1/7		1/7	
EFFLUENT LIMITATIONS	Daily Avg. (24-36)	None						
	Daily Max. (37-44)	None	6-0-9-0		0.2		1.0	
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day
1								
2								
3								
4								
5								
6								
7								
8		0.007	7.0	6.8	.09		.01	
9								
10								
11								
12								
13								
14								
15		0.009	7.7	6.9	.9		.11	
16								
17								
18								
19								
20								
21								
22		0.003	8.0	6.4	.8		.02	
23								
24								
25								
26								
27								
28								
29								
30								
31								
AVERAGE (29-36)		0.006	3.0		2.5		0.04	
HIGHEST VALUE OF MONTH (37-44)		0.009	3.0		0.9		0.11	
LOWEST VALUE OF MONTH (45-52)		0.003	6.4		0.09		0.01	
NO. OF TIMES MAX EFFLUENT LIMITATION EXCEEDED (53-54)					2			

R. B. Smith
SUPERVISOR (55)

R. B. Smith
(57) SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 1 OF 2

U. S. S. Lead Refinery, Inc.
5000 Kennedy Avenue
St. Chicago, Indiana 46312

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

111 010312141215

(1-7)
PERMIT NUMBER

0101

(8-10)
OUTFALL/
FAC. NO.

011 211

(11-12)(13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1 - INDUSTRY
4 - FEDERAL
5 - WATER SUPPLY

1
(16)

EFFLUENT CHARACTERISTICS		FLOW	pH		LEAD		ARSENIC			
EFFLUENT NO. (17-21)		Q 50050	C 00400		C 01051 g		C 01000 g			
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR			
	Monitored		GR		GR		GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7		1/7			
	Monitored		1/7		1/7		1/7			
EFFLUENT LIMITATIONS	Daily Ave. (24-36)	None								
	Daily Max. (37-44)	None	6-0-9-0		0.2		1.0			
DATE	UNITS	MGD	HI	LOW	mg/l	lb/day	mg/l	lb/day		
1										
2										
3										
4		0.005	7.9	7.5	0.7		0.01			
5										
6										
7										
8										
9										
10										
11		0.003	8.0	7.1	0.2		0.02			
12										
13										
14										
15										
16										
17										
18		0.007	7.4	6.9	0.16		0.03			
19										
20										
21										
22										
23										
24										
25		0.005	7.0	6.4	0.12		0.01			
26										
27										
28										
29										
30										
31										
AVERAGE (29-36)		0.005	X		0.20		0.01			
HIGHEST VALUE OF MONTH (37-44)		0.007	X		0.7		0.03			
LOWEST VALUE OF MONTH (45-52)		0.003	X		0.12		0.01			
NO. OF TIMES MAX. EFFLUENT LIMITATION EXCEEDED (53-54)		0	0		1					

MAR 23 11 32 AM '81
 INDIANA STATE DEPT. OF ENVIRONMENTAL HEALTH
 DIVISION OF POLLUTION CONTROL

James L. Steels

[Signature]
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

Mar. 19, 1981

REPORT OF SPC-15 OR NPDES DISCHARGE MONITORING

SHEET 2 OF 2

U.S.S. Lead Refinery Inc.
5300 Kennedy Avenue
East Chicago, Ind. 46312

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 15TH OF THE FOLLOWING MONTH.

1 0 1 0 3 1 2 4 2 5

(1-7)
PERMIT NUMBER

0 1 0 1 1

(8-10)
OUTFALL/
FAC. NO.

0 1 2 8 1 1

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1 - INDUSTRIAL
4 - FEE FARM
5 - WASTEWATER

1
(16)

EFFLUENT CHARACTERISTICS		SULFATE		FLUORIDE		TOTAL SUSPENDED SOLIDS			
EFFLUENT NO. (17-21)		C	00945	C	000951	C00547	Q	C	Q
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR	GR			
	Monitored		GR		GR	GR			
FREQUENCY (24-28)	Permit Cond.		1/7		1/7	1/7			
	Monitored		1/7		1/7	1/7			
EFFLUENT LIMITATIONS	Daily Avg (29-36)		506		4	20			
	Daily Max (37-44)		1012		8	30			
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4									
5									
6									
7									
8			17.4		0.12	10.2			
9									
10									
11									
12									
13									
14									
15			25.6		0.4	18.7			
16									
17									
18									
19									
20									
21									
22			6.5		0.04	15.7			
23									
24									
25									
26									
27									
28									
29									
30									
31									
AVERAGE (39-36)			16.5		0.18	14.8			
HIGHEST VALUE OF MONTH (37-44)			25.6		0.12	15.7			
LOWEST VALUE OF MONTH (45-52)			6.5		0.04	10.2			
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)									

INDIANA STREAM POLLUTION CONTROL BOARD MONTHLY REPORT REPORT FOR SPC-15 OR NPDES DISCHARGE PERMITS

SHEET 2 OF 2

U.S.S. Lead Refinery Inc.
5200 Kennedy Avenue
East Chicago, Ind. 46312

PLEASE COMPLETE AND SUBMIT ONE COPY AT THE END OF EACH MONTH. THIS REPORT MUST REACH THE STREAM POLLUTION CONTROL BOARD OFFICE BY THE 25TH OF THE FOLLOWING MONTH.

1 1 N 2 0 3 2 4 2 5

(1-7)
PERMIT NUMBER

01011

(8-10)
OUTFALL/
FAC. NO.

011511

(11-12) (13-14)
MO. YR.

ENTER:

1 for NPDES
2 for SPC-15

1
(15)

ENTER:

1
(16)

1 - INDUS.
4 - FEDERAL
5 - WATER

EFFLUENT CHARACTERISTICS		SULFATE		FLUORIDE		TOTAL SUS. SOLIDS		TDS	
EFFLUENT NO. (17-21)	C		00945	C	000951	C00547	9	C	0
SAMPLE TYPE (22-23)	Permit Cond.		GR		GR		GR		
	Monitored		GR		GR		GR		
FREQUENCY (24-25)	Permit Cond.		1/7		1/7		1/7		
	Monitored		1/7		1/7		1/7		
EFFLUENT LIMITATIONS	Daily Avg. (29-36)		506		4		20		
	Daily Max (37-44)		1012		8		30		
UNITS		mg/l	lb/day	mg/l	lb/day	mg/l	lb/day	mg/l	lb/day
DATE									
1									
2									
3									
4			250.6		0.12		7.0		
5									
6									
7									
8									
9									
10									
11			0.35		0.09		3.0		
12									
13									
14									
15									
16									
17									
18			15.3		0.3		5.4		
19									
20									
21									
22									
23									
24									
25			4.8		0.10		37.8		
26									
27									
28									
29									
30									
31									
AVERAGE (29-36)			75.1		0.15		22.7		
HIGHEST VALUE OF MONTH (37-44)			250.6		0.12		37.8		
LOWEST VALUE OF MONTH (45-52)			0.35		0.09		3.0		
NO. OF TIMES MAX. EFFLUENT LIMITATIONS EXCEEDED (53-54)			0		0		1		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE MAR 20 1984

SUBJECT Compliance Sampling Inspection
U.S.S. Lead Refinery, Incorporated

FROM: ^{JGM} John McGuire, Environmental Engineer
Central Field Investigations Section

TO: Edward Di Domenico, Chief
Engineering Unit

THRU: John F. Connell, Chief ^{JF}
Central Field Investigations Section

THRU: Gerald F. Regan, Chief ^{GFR}
Central District Office

Date of Inspection: January 10, 1984

A summary of the rating, Page 1 Section C of the 3560 Form is as follows:

1. Effluent within Permit Requirements: Unsatisfactory
2. Permit Verification : Unsatisfactory
3. Sampling Procedures : Marginal

Pratt

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ENVIRONMENTAL SERVICES DIVISION
CENTRAL DISTRICT OFFICE
CENTRAL FIELD INVESTIGATIONS SECTION

I. Permittee Identification

- A. U.S.S. Lead Refinery, Incorporated
5300 Kennedy Avenue
East Chicago, Indiana 46312
- B. Responsible Officials: Mr. Golden, Plant Manager
Mr. Anthony Traicoff,
Maintenance Superintendent
- C. NPDES Permit Number : IN0032425
- D. Date of Issuance : June 15, 1975
- E. Date of Expiration : March 31, 1980
- F. Receiving Water : Grand Calumet River

II. Date of Inspection: January 10, 1984

III. Participants

- A. Facility: Anthony Traicoff, Maintenance Superintendent
- B. U.S. EPA: John McGuire, Environmental Engineer
Charles Steiner, Aquatic Biologist

IV. Objectives

The objectives of this inspection were to investigate a duck kill near the U.S.S. Lead facility and sample the plant's discharge and ditch on the west side of the plant.

V. Findings

Grab samples were collected at two locations (see site sketch 1): the permittee's discharge sampling point (outfall 001) and a ditch on the west side of the plant. The sample analysis, Table 1, showed that the facility exceeded its permit limitation for lead at the effluent. The permit requires a 24-hour composite sample; however, the Central District Office collected a grab sample. For comparison an Environmental Services Division RCRA report for this facility is attached.

The facility's permit, a copy of which is attached, expired March 31, 1980, and a renewal request was not made until September 1982. The renewal application, dated September 27, 1982, and another letter explaining the delay are also attached.

Due to time limitation during the inspection, only the following items from the 3560 Form, Section C were rated:

1. Effluent Within Permit Requirements - Unsatisfactory
2. Permit Verification - Unsatisfactory
3. Sampling Procedure - Marginal

VI. Description of Permittee

The facility is a secondary lead smelter using lead from old automobile batteries and industrial lead scrap as its raw material.

The batteries are handled as follows:

1. acid is treated in a two stage system to remove any lead and to control the pH;
2. the lead battery cells are removed and sent to the blast furnace, and;
3. the battery casings are separated by type, i.e. plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP.

Outfall 001 consists of non-contact cooling water and in-plant storm drains. The outfall flows into the discharge channel, which flows into a wetland bordering the Grand Calumet River. This wetland, which is owned by the company, has partly been filled in with blast furnace slag.

VII. Discussion

The blast furnace was shut down for maintenance on January 4, 1984, and only a small amount of water was being discharged from outfall 001. This discharge was mainly from water being flushed through the blast furnace and other plant systems to prevent these systems from freezing.

The facility collects samples from outfall 001 in the channel after the water has left the discharge pipe. This sampling point could be influenced by runoff from the battery storage area, runoff or leaching from the slag-fill area or at low flow the discharge channel sediments. For these reasons the Sampling Procedures was rated marginal.

Attachments

Page 1, 3560 Form
Sketch of Sample Points
Table 1
RCRA Report
Permit

NPDES COMPLIANCE INSPECTION REPORT (Coding Instructions on back of last page)

TRANSACTION CODE	NPDES	YR	MO	DA	TYPE	INSP. TOR	FAC TYPE	TIME
W	15	84	10	10	15	X	R	2
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18

REMARKS

21	ADDITIONAL	64
65	70	

SECTION A - Permit Summary

NAME AND ADDRESS OF FACILITY (Include County, State and ZIP code)

U.S. Lead Refinery, Incorporated
5300 Kennedy
East Chicago, Indiana

EXPIRATION DATE

March 31, 1980

ISSUANCE DATE

June 15, 1975

RESPONSIBLE OFFICIAL

TITLE

PHONE

FACILITY REPRESENTATIVE

TITLE

PHONE

Anthony Traicoff

Maintenance Superintendent 219-731-0500

SECTION B - Effluent Characteristics (Additional sheets attached _____)

PARAMETER/ OUTFALL		MINIMUM	AVERAGE	MAXIMUM	ADDITIONAL
001					
Flow	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				Monitor when sampling
Total cad	SAMPLE MEASUREMENT			1.43 mg/l	grab sample
	PERMIT REQUIREMENT			0.2 mg/l	daily 24 hr., composite
Arsenic	SAMPLE MEASUREMENT			0.256 mg/l	grab sample
	PERMIT REQUIREMENT			1.0 mg/l	daily 24 hr., composite
Total suspended solids	SAMPLE MEASUREMENT			15 mg/l	grab sample
	PERMIT REQUIREMENT		20 mg/l	30 mg/l	daily 24 hr., composite
Sulfate	SAMPLE MEASUREMENT			1130 mg/l	grab sample
	PERMIT REQUIREMENT		506 lb/day	1012 lb/day	daily 24 hr., composite
			Net value - above background level of intake water.		

SECTION C - Facility Evaluation (S = Satisfactory, U = Unsatisfactory, N/A = Not applicable) M - Marginal

<input checked="" type="checkbox"/> EFFLUENT WITHIN PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> OPERATION AND MAINTENANCE	<input checked="" type="checkbox"/> SAMPLING PROCEDURES
<input type="checkbox"/> RECORDS AND REPORTS	<input type="checkbox"/> COMPLIANCE SCHEDULE	<input type="checkbox"/> LABORATORY PRACTICES
<input checked="" type="checkbox"/> PERMIT VERIFICATION	<input type="checkbox"/> FLOW MEASUREMENTS	<input type="checkbox"/> OTHER:

SECTION D - Comments

SECTION E - Inspection/Review			ENFORCEMENT DIVISION USE ONLY
SIGNATURES	AGENCY	DATE	
INSPECTED BY John A. McDevitt	USEPA	11/10/84	
REVIEWED BY			
			COMPLIANCE STATUS
			<input type="checkbox"/> COMPLIANCE
			<input type="checkbox"/> NONCOMPLIANCE

Table 1. continued
IAP Metals

NUMBER OF SAMPLE(S) TO BE REPORTED : 15
RECNUM= 27

Transmitted
by
MRP

1/23/84 RS
MAK
1/24/84

Jan
20/Jan/84

1/27/84

DL1:[001,054]RUN408.HRN

20-JAN-84

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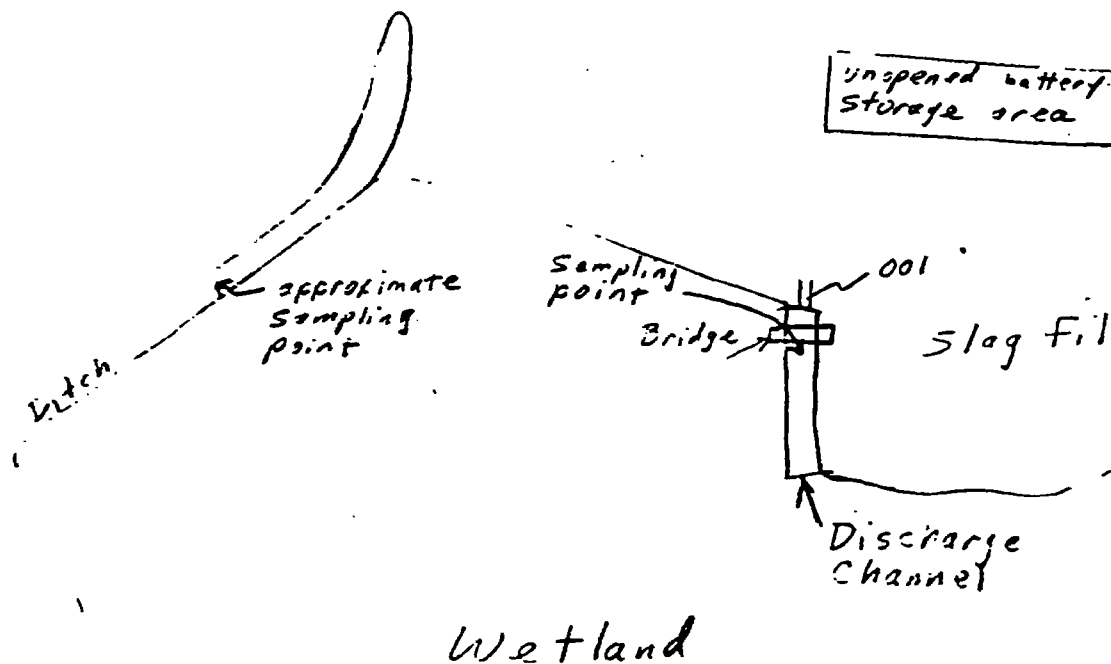
PAGE 1

ELEMENT	DATA SET : CD0174				Ditch CH09S02
	Effluent CH09S01	Reagent Blank CH09R01			
AG	3.00	<	3.00	<	3.00
AL	1370.	<	80.		217.
B	576.	<	80.		167.
BA	32.7	<	5.0		29.2
BE	1.00	<	1.00	<	1.00
CD	387.	<	2.00	<	2.00
CO	10.4	<	6.00	<	6.00
CR	8.0	<	8.0		40.0
CU	29.2	<	6.00	<	6.00
FE	4520.	<	80.		3060.
LI	82.0	<	10.0		20.7
MN	783.	<	5.		236.
MO	10.0	<	10.0	<	10.0
NI	111.	<	15.0	<	15.0
PB	1520.	<	70.0	<	70.0
SN	40.0	<	40.0	<	40.0
SR	322.	<	10.		191.
TI	20.0	<	20.0	<	20.0
V	5.00	<	5.00	<	5.00
Y	5.00	<	5.00	<	5.00
ZN	2400.	<	40.0		74.7
CA	351.0	<	0.5		67.1
K	31.7	<	2.00		6.47
MG	54.8	<	0.1		28.0
NA	217.	<	1.0		43.5

* < means less than the detectable limit.

Site Sketch 1

U.S.S. Lead Refining
5300 Kennedy
East Chicago, Indiana



Grand Calumet River

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE

SUBJECT Compliance Sampling Inspection
USS Lead Refinery, Incorporated

FROM: ^{4/4/84} John J. McGuire, Environmental Engineer
Central Field Investigations Section

TO: Edward Di Domenico, Chief ^{EL}
Engineering Unit

THRU: John F. Connell, Chief
Central Field Investigations Section

THRU: Gerald F. Regan, Chief ^{GR}
Central District Office

Date of Inspection: April 5, 1984

Summary of Findings

The facility was rated unsatisfactory (see Section C Form 3560) for (1) Effluent Within Permit Requirements, (2) Permit Verification, (3) Operation & Maintenance, and (4) Sampling Procedures. The facility was rated marginal for Flow Measurements. Records & Reports and Laboratory Practices could not be rated.

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ENVIRONMENTAL SERVICES DIVISION
CENTRAL DISTRICT OFFICE
CENTRAL FIELD INVESTIGATIONS SECTION

I. Permittee Identification

- A. U.S.S. Lead Refinery, Incorporated
5300 Kennedy Avenue
East Chicago, Indiana 46312
- B. Responsible Officials
 - 1. Mr. Golden, Plant Manager
 - 2. Mr. R.D. Steels, Plant Engineer
- C. NPDES Permit Number: IN0032425
- D. Date of Issuance: June 15, 1975
- E. Date of Expiration: March 31, 1980
- F. Receiving Water: Grand Calumet River

II. Dates of Inspection: April 9-10, 1984

III. Participants

- A. Facility: R.D. Steels, Plant Engineer
- B. U.S. EPA
 - 1. John McGuire, Environmental Engineer
 - 2. Sylvia Griffin, Physical Science Technician
 - 3. Mark Wehling, Engineer Trainee

IV. Objective

The objective of this inspection was to perform a Compliance Sampling Inspection with a 24-hour composite sample collected at outfall 001 and a grab sample taken in the canal.

V. Findings

- A. Form 3560, Section C, Facility Evaluation

The facility was rated unsatisfactory for Effluent Within Permit Requirements, Permit Verification, and Sampling Procedures. The Records & Reports and Laboratory Practices Sections were not rated since samples are sent to Mansfield Laboratory in Elkhart, Indiana.

VI. Description of Permittee

- A. The facility is a secondary lead smelter using lead from old automobile and truck batteries and industrial lead scrap as its raw material.

The batteries are handled as follows:

1. acid is treated in a two stage system to remove lead and to control the pH;
2. sludges from the acid treatment system are disposed of under RCRA as a hazardous waste;
3. the lead battery cells are removed and sent to the blast furnace; and
4. the battery casings are separated by type, i.e. plastic or rubber, stored on site until enough have accumulated for shredding and then disposal.

Since this is not a continuous process, the unopened batteries and empty casings may be stored on the site for varying amounts of time.

Wastewater from the acid treatment system is discharged to the East Chicago WWTP.

According to Mr. Steels, outfall 001 consists of non-contact cooling water and storm drains (see Figure 1). Casting house cooling water and storm drains combine with boiler house storm drains at sewer A. The water then flows to sewer B where cooling water from the furnace joins the flow before being discharged without any treatment at discharge 001.

B. Self Monitoring

The facility's permit, which expired in March 1980, required flow measurement (when sampling); daily 24-hour composite sampling for total lead, arsenic, sulfate, fluoride, and total suspended solids; and a daily grab sample for pH. The sampling frequency was changed to a weekly grab sample in a letter from the ISBH dated March 15, 1976.

VII. U.S. EPA Sampling Program

Two ISCO samplers were used to sample the waste stream at sewer B. The samplers were programmed to take a 400ml water sample every 60 minutes. These 24-hourly samples were composited in a 5-gallon plastic container and thoroughly mixed. From this composite two 960ml plastic bottles were filled. One bottle was for general chemistry (TSS, sulfate, and fluoride) and one for metals (total lead and arsenic). A grab sample was also taken at this point for pH on both days of the inspection.

A grab sample was taken from the canal on April 10, 1984, for the same sample parameters as listed above. These samples were taken by placing the sample containers directly into the canal.

The following preservation procedures were used:

1. ice was added to the ISCO samplers during the sampling period;
2. diluted (1:1) nitric acid was added to the metal samples; and
3. samplers were kept on ice during transport to the Central Regional Laboratory under ESD Chain-of-Custody.

The facility supplied the following flow information:

Blast Furnace 300 gal/hr X 24 hr. = 7,200 gal
Casting House 1200 gal/hr X 6 hr. = 7,200 gal

There was no rain during the sampling period, thus, only cooling water was being discharged.

VII. Discussion

A. Detailed Evaluation of Form 3560, Section C

1. Effluent Within Permit Requirements - Unsatisfactory.

Analytical results of the sample taken during the inspection, Tables 1 and 2, shows the facility exceeded its permit limit for lead. The limit is 0.2 mg/l and the sample contained 4.01 mg/l. The EPA samples in January were also above the permit limit.

The facility monthly discharge monitoring reports were reviewed for September 1983 thru February 1984, and all six exceeded the lead limit.

2. Records and Reports - No ratings.

Information from Section G is needed to rate Records and Reports. Since the facility sends samples to a laboratory in Elkhart, Indiana, Mr. Steels could only answer two of the ten questions in this section, questions (a)(i) and (b). Two other questions, (d) and (f) were not applicable.

3. Permit Verification - Unsatisfactory

The facility permit expired March 31, 1980, and a renewal request was not sent to the state until September 1982, as reported in the CDO inspection of January 10, 1984.

4. Operation and Maintenance - Unsatisfactory

The facility stores 16,000 gallons of #2 fuel oil on the site but does not have a SPCC plan. An SPCC Form 700-53 was completed and has been given to Robert Bowden, Chief, Spills Response Section, CDO.

5. Flow Measurement - Marginal

The flow measurement for furnace and casting house cooling water are only estimates. These estimates do not take into account water due to storm runoff or inflow - infiltration to the drainage system.

6. Sampling Procedures - Unsatisfactory

As noted in the January inspection, the facility's sampling point in the channel could be influenced by runoff from the battery storage area, runoff or leaching from the slag-filled area or during low flow, leaching from the discharge channel sediments.

Samples are sent to Mansfield Laboratory in Elkhart, Indiana, but are neither refrigerated during shipment nor preserved with nitric acid as required by Standard Methods.

7. Laboratory Practices - not rated

The facility sends samples to Mansfield Laboratory in Elkhart, Indiana, therefore this section was not evaluated.

8. Canal Samples

The samples on April 10, 1984, were taken closer to the facility than those taken on January 10, 1984. The April samples tended to be higher than the January results.

TRANSACTION CODE			NPDES			YR MO DA			TYPE			INSPECTOR			FAC TYPE			TIME		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	5		1	0	0	3	2	4	2	5		5	4	0	4	0	9			
REMARKS																				
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PARAMETER/ OUTFALL		MINIMUM	AVERAGE	MAXIMUM	ADDITIONAL
pH	SAMPLE MEASUREMENT	6.4 4/9/84		6.5 4/10/84	Grab sample,
	PERMIT REQUIREMENT	6.0		9.0	Weekly, Grab
Fluoride	SAMPLE MEASUREMENT			11.0 mg/l 1.4 lb/day	Composite sample, Taken 4/9-10/84
	PERMIT REQUIREMENT		4.0 lb/day	8.0 lb/day	weekly, Grab
	SAMPLE MEASUREMENT				
	PERMIT REQUIREMENT				
	SAMPLE MEASUREMENT				
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	PERMIT REQUIREMENT				

Sections F thru L: Complete on all inspections, as appropriate. N/A = Not Applicable		PERMIT NO. INCO 32425
SECTION F - Facility and Permit Background		
ADDRESS OF PERMITTEE IF DIFFERENT FROM FACILITY (Including City, County and ZIP code)	DATE OF LAST PREVIOUS INVESTIGATION BY EPA/STATE January 1954	
	FINDINGS Unknown	
SECTION G - Records and Reports		
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A (Further explanation attached <input checked="" type="checkbox"/>)		
DETAILS: Questions dealing with the lab could not be answered.		
(a) ADEQUATE RECORDS MAINTAINED OF:		
(i) SAMPLING DATE, TIME, EXACT LOCATION	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(ii) ANALYSES DATES, TIMES	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(iii) INDIVIDUAL PERFORMING ANALYSIS	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(iv) ANALYTICAL METHODS/TECHNIQUES USED	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(v) ANALYTICAL RESULTS (e.g., consistent with self-monitoring report data)	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(b) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g. continuous monitoring instrumentation, calibration and maintenance records).	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(c) LAB EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS KEPT.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(d) FACILITY OPERATING RECORDS KEPT INCLUDING OPERATING LOGS FOR EACH TREATMENT UNIT.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(e) QUALITY ASSURANCE RECORDS KEPT.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(f) RECORDS MAINTAINED OF MAJOR CONTRIBUTING INDUSTRIES (and their compliance status) USING PUBLICLY OWNED TREATMENT WORKS.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
SECTION H - Permit Verification		
INSPECTION OBSERVATIONS VERIFY THE PERMIT. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A (Further explanation attached <input checked="" type="checkbox"/>)		
DETAILS:		
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(b) FACILITY IS AS DESCRIBED IN PERMIT.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(c) PRINCIPAL PRODUCT(S) AND PRODUCTION RATES CONFORM WITH THOSE SET FORTH IN PERMIT APPLICATION.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(d) TREATMENT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(e) NOTIFICATION GIVEN TO EPA/STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
(f) ACCURATE RECORDS OF RAW WATER VOLUME MAINTAINED.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(g) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(h) CORRECT NAME AND LOCATION OF RECEIVING WATERS. <u>Grand Calumet River</u>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(i) ALL DISCHARGES ARE PERMITTED.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
SECTION I - Operation and Maintenance		
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A (Further explanation attached <input checked="" type="checkbox"/>)		
DETAILS: Discharge consist of non-contact cooling water and storm drains.		
(a) STANDBY POWER OR OTHER EQUIVALENT PROVISIONS PROVIDED.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(b) ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(c) REPORTS ON ALTERNATE SOURCE OF POWER SENT TO EPA/STATE AS REQUIRED BY PERMIT.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(d) SLUDGES AND SOLIDS ADEQUATELY DISPOSED.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(e) ALL TREATMENT UNITS IN SERVICE.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(f) CONSULTING ENGINEER RETAINED OR AVAILABLE FOR CONSULTATION ON OPERATION AND MAINTENANCE PROBLEMS.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
(g) QUALIFIED OPERATING STAFF PROVIDED. <u>Class B</u>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(h) ESTABLISHED PROCEDURES AVAILABLE FOR TRAINING NEW OPERATORS.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
(i) FILES MAINTAINED ON SPARE PARTS INVENTORY, MAJOR EQUIPMENT SPECIFICATIONS, AND PARTS AND EQUIPMENT SUPPLIERS.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(j) INSTRUCTIONS FILES KEPT FOR OPERATION AND MAINTENANCE OF EACH ITEM OF MAJOR EQUIPMENT.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(k) OPERATION AND MAINTENANCE MANUAL MAINTAINED.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(l) SPCC PLAN AVAILABLE. <u>(9000 gal/Tank of #2 Fuel oil) X2</u>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
(m) REGULATORY AGENCY NOTIFIED OF BY PASSING. (Date _____)	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(n) ANY BY-PASSING SINCE LAST INSPECTION.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
(o) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED.	<input type="checkbox"/> YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A

PERMIT NO.

IL/CO 32425

SECTION J - Compliance Schedules

PERMITTEE IS MEETING COMPLIANCE SCHEDULE.

☐ YES ☐ NO ☒ N/A (Further explanation attached _____)

CHECK APPROPRIATE PHASE(S).

- ☐ (a) THE PERMITTEE HAS OBTAINED THE NECESSARY APPROVALS FROM THE APPROPRIATE AUTHORITIES TO BEGIN CONSTRUCTION.
- ☐ (b) PROPER ARRANGEMENT HAS BEEN MADE FOR FINANCING (mortgage commitments, grants, etc.).
- ☐ (c) CONTRACTS FOR ENGINEERING SERVICES HAVE BEEN EXECUTED.
- ☐ (d) DESIGN PLANS AND SPECIFICATIONS HAVE BEEN COMPLETED.
- ☐ (e) CONSTRUCTION HAS COMMENCED.
- ☐ (f) CONSTRUCTION AND/OR EQUIPMENT ACQUISITION IS ON SCHEDULE.
- ☐ (g) CONSTRUCTION HAS BEEN COMPLETED.
- ☐ (h) START-UP HAS COMMENCED.
- ☐ (i) THE PERMITTEE HAS REQUESTED AN EXTENSION OF TIME.

SECTION K - Self-Monitoring Program

Part 1 - Flow measurement (Further explanation attached _____)

PERMITTEE FLOW MEASUREMENT MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT.

☒ YES ☐ NO ☐ N/ADETAILS: Flow is estimated from process stream intake water.

(a) PRIMARY MEASURING DEVICE PROPERLY INSTALLED.

☐ YES ☐ NO ☒ N/ATYPE OF DEVICE: ☐ WEIR ☐ PARSHALL FLUME ☐ MAGMETER ☐ VENTURI METER ☒ OTHER (Specify See above)

(b) CALIBRATION FREQUENCY ADEQUATE. (Date of last calibration _____)

☐ YES ☐ NO ☒ N/A

(c) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED AND MAINTAINED.

☐ YES ☐ NO ☒ N/A

(d) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED.

☐ YES ☐ NO ☒ N/A

(e) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOW RATES.

☐ YES ☐ NO ☒ N/A

Part 2 - Sampling (Further explanation attached _____)

PERMITTEE SAMPLING MEETS THE REQUIREMENTS AND INTENT OF THE PERMIT.

☐ YES ☒ NO ☐ N/A

DETAILS:

(a) LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.

☐ YES ☒ NO ☐ N/A

(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT.

☐ YES ☐ NO ☐ N/A

(c) PERMITTEE IS USING METHOD OF SAMPLE COLLECTION REQUIRED BY PERMIT.

☒ YES ☐ NO ☐ N/AIF NO, ☐ GRAB ☐ MANUAL COMPOSITE ☐ AUTOMATIC COMPOSITE FREQUENCY

(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE.

☐ YES ☒ NO ☐ N/A(i) SAMPLES REFRIGERATED DURING COMPOSITING Not Refrigerated during shipping☐ YES ☒ NO ☐ N/A

(ii) PROPER PRESERVATION TECHNIQUES USED

☐ YES ☒ NO ☐ N/A

(iii) FLOW PROPORTIONED SAMPLES OBTAINED WHERE REQUIRED BY PERMIT

☐ YES ☐ NO ☒ N/A(iv) SAMPLE HOLDING TIMES PRIOR TO ANALYSES IN CONFORMANCE WITH 40 CFR 136.3 ?☐ YES ☐ NO ☐ N/A

(e) MONITORING AND ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT.

☐ YES ☒ NO ☐ N/A

(f) IF (e) IS YES, RESULTS ARE REPORTED IN PERMITTEE'S SELF-MONITORING REPORT.

☐ YES ☐ NO ☒ N/APart 3 - Laboratory (Further explanation attached V, Could not evaluate lab.)

PERMITTEE LABORATORY PROCEDURES MEET THE REQUIREMENTS AND INTENT OF THE PERMIT.

☐ YES ☐ NO ☐ N/ADETAILS: Facility sends samples out for analysis.

(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED. (40 CFR 136.3)

☐ YES ☐ NO ☐ N/A

(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED.

☐ YES ☐ NO ☐ N/A

(c) PARAMETERS OTHER THAN THOSE REQUIRED BY THE PERMIT ARE ANALYZED.

☐ YES ☐ NO ☐ N/A

(d) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.

☐ YES ☐ NO ☐ N/A

(e) QUALITY CONTROL PROCEDURES USED.

☐ YES ☐ NO ☐ N/A

(f) DUPLICATE SAMPLES ARE ANALYZED. _____ % OF TIME

☐ YES ☒ NO ☐ N/A

(g) SPIKED SAMPLES ARE USED. _____ % OF TIME

☐ YES ☐ NO ☐ N/A

(h) COMMERCIAL LABORATORY USED.

☒ YES ☐ NO ☐ N/A

(i) COMMERCIAL LABORATORY STATE CERTIFIED.

☐ YES ☐ NO ☒ N/ALAB NAME Mansfield LabLAB ADDRESS Elkhart Ind.

PERMIT NO.
IN 0032425

SECTION L - Effluent/Receiving Water Observations (Further explanation attached _____)

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VIS-BLE FOAM	VISIBLE FLOAT SOL	COLOR	OTHER
<u>001</u>	<u>N/D</u>	<u>N/D</u>	<u>N/D</u>	<u>N/D</u>	<u>N/D</u>	<u>Clear</u>	

(Sections M and N: Complete as appropriate for sampling inspections)

SECTION M - Sampling Inspection Procedures and Observations (Further explanation attached 1/1)

- ☐ GRAB SAMPLES OBTAINED
☒ COMPOSITE OBTAINED
☐ FLOW PROPORTIONED SAMPLE
☒ AUTOMATIC SAMPLER USED
☐ SAMPLE SPLIT WITH PERMITTEE
☒ CHAIN OF CUSTODY EMPLOYED
☐ SAMPLE OBTAINED FROM FACILITY SAMPLING DEVICE

COMPOSITING FREQUENCY 325 ml/hr for 24 hr.PRESERVATION ICE & HNO₃ For MetalsSAMPLE REFRIGERATED DURING COMPOSITING: ☒ YES ☐ NOSAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE Samples were collected once per hour starting at 10:30 AM on 4/9 and ending at 9:33 AM on 4/10. These 24 samples were then mixed together and samples were then filled.

SECTION N - Analytical Results (Attach report if necessary)

Table I

[illegible]

4/24/84

FILE =

Jun 26 4:04 PM

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26-APR-84

09:16:10

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DATA SET : CD8313					
ELEMENT		Effluent 02'	Effluent	Corr.	
		CM11S01	CM11R01	CM11S02	
AG	µg/L <	3.00	<	3.00	< 3.00
AL		365.	<	80.	207.
B		229.	<	80.	326.
BA		33.1	<	5.0	40.3
BE	<	1.00	<	1.00	1.00
CD		256.	<	2.00	2.00
CO	<	6.00	<	6.00	6.00
CR	<	8.00	<	8.00	8.00
CU		36.7	<	6.00	6.00
FE		2630.	<	80.	1100.
LI		35.3	<	10.0	49.1
MN		344.	<	5.	580.
MO	<	10.0	<	10.0	10.0
NI		26.1	<	15.0	15.0
PB		4010.			
SN	<	40.0	<	40.0	40.0
SR		223.	<	10.	307.
TI	<	20.0	<	20.0	20.0
V	<	5.00	<	5.00	5.00
Y	<	5.00	<	5.00	5.00
ZN	↓	499.	<	40.0	96.6
CA	mg/L	100.	<	0.5	128.
K	↓	6.6	<	2.0	12.0
HG		30.4	<	0.1	53.3
NA		55.	<	1.	114.

See GFAA results for size 2

Transm. Hrb
by
WHP
4/30/84

MSK
4/30/84

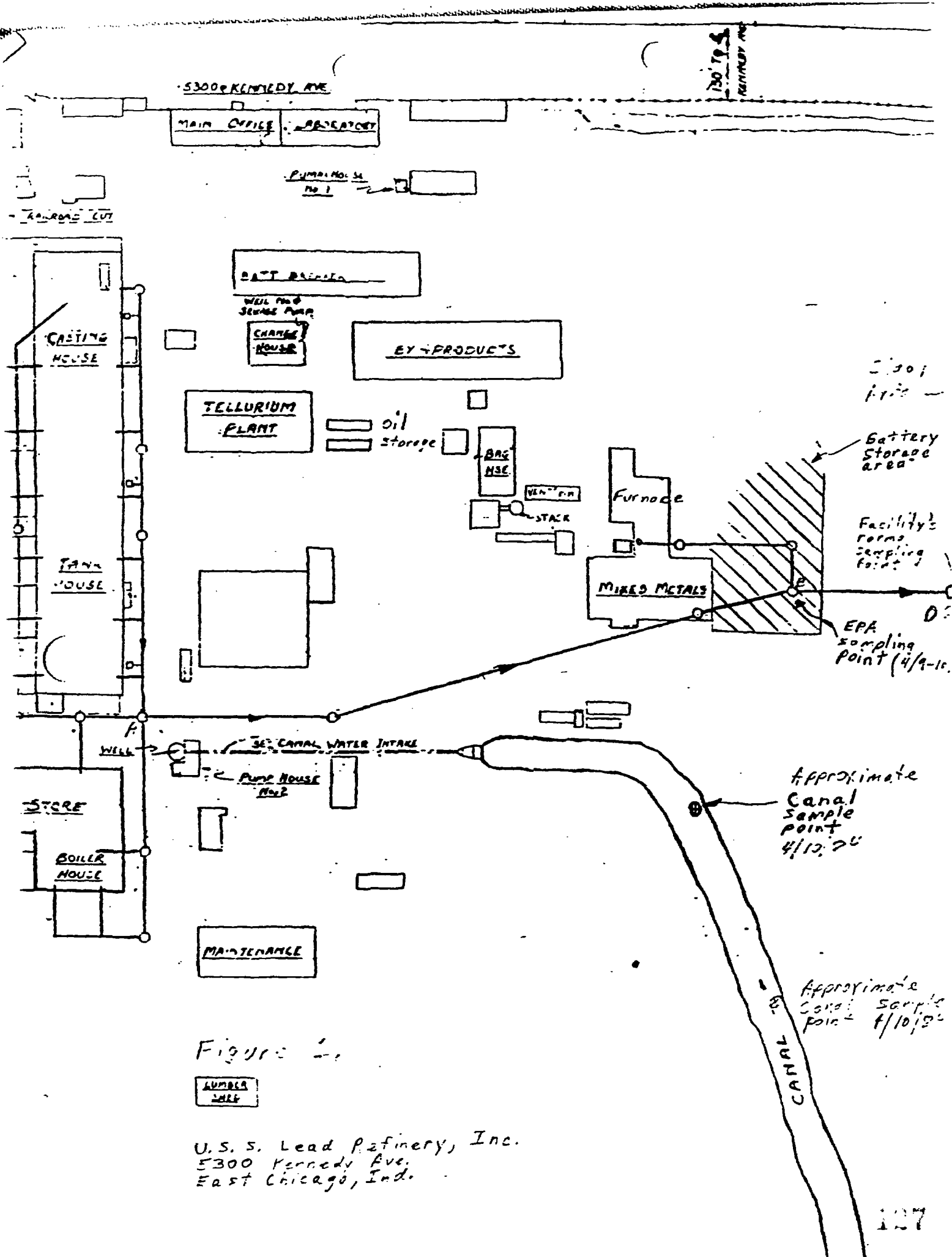
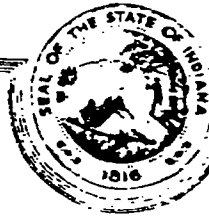


Figure 2.

U.S.S. Lead Refinery, Inc.
5300 Kennedy Ave.
East Chicago, Ind.

STATE OF INDIANA



INDIANAPOLIS 46206-1964

STREAM POLLUTION CONTROL BOARD

1330 West Michigan Street
P.O. Box 1964

RETURN RECEIPT

STATE OF INDIANA)
) SS: BEFORE THE STREAM POLLUTION CONTROL
COUNTY OF MARION) BOARD OF THE STATE OF INDIANA

IN THE MATTER OF THE STREAM POLLUTION)
CONTROL BOARD OF THE STATE OF INDIANA)

vs.)

CAUSE NO. B-891

U.S.S LEAD REFINERY, INC.)

NOTICE OF HEARING AND COMPLAINT

TO: Mr. Victor Posner, President
U.S.S Lead Refinery, Inc.
5300 Kennedy Avenue
East Chicago, IN 46312

Prentice Hall Corporation Company
Resident Agent, U.S.S. Lead Refining, I
1100 Circle Tower
Indianapolis, IN 46204

You are hereby notified, as provided by the Indiana Administrative Adjudication Act at IC 4-22-1-6 and the Indiana Environmental Management Act at IC 13-7-11, and pursuant to the authority therein granted, that the Stream Pollution Control Board of the State of Indiana, on the 20th day of March 1984, ordered that a hearing be held before Mr. James M. Garrettson, a duly authorized representative of the Stream Pollution Control Board, acting on its behalf as its Hearing Officer.

You are further notified that the matters in issue and to be determined at this hearing relate to the question of whether or not Respondent has violated, is now violating, or is about to violate the provisions of the Indiana Stream Pollution Control Law, IC 13-1-3, or the Indiana Environmental Management Act, IC 13-7, as amended, including any and all applicable regulations promulgated thereunder, by permitting, threatening, causing, or contributing to the pollution of certain waters of this State, more particularly: (see enclosed Summary).

Also to be considered is whether an Order should be made requiring any or all Respondents in this Cause to cease and desist from threatening, causing, or contributing to the pollution of said waters of the State and from violating applicable statutes and regulations promulgated thereunder and also whether or not an Order, including civil

penalty, and/or schedule of compliance, should be recommended to the Stream Pollution Control Board by the Hearing Officer pursuant to the authority granted by IC 13-7-11-5 or IC 13-7-13-1.

Pursuant to IC 13-7-11-2 and IC 4-22-1-4, you are requested to attend a prehearing conference on April 27, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building, 1330 West Michigan Street, Indianapolis, Indiana, to attempt to reach a settlement on this matter prior to the hearing date. Arrangements for rescheduling of prehearing conference times or dates should be made by contacting Ms. MaryAnn Stevens at AC 317/633-0768.

Failing settlement at the prehearing conference, you are further notified that a formal administrative hearing shall be held on May 24, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building, 1330 West Michigan Street, Indianapolis, Indiana.

You are entitled to be represented by counsel, to attend this hearing with witnesses, and to present any testimony on your behalf in order to aid the Stream Pollution Control Board in reaching a determination in this matter. Arrangements for rescheduling of the hearing time or date should be made by contacting the Hearing Officer at AC 317/633-8548, or by mail to the following address:

Mr. James M. Garrettson, Hearing Officer
Indiana Stream Pollution Control Board
1330 West Michigan Street
Indianapolis, IN 46206

Written appearance of counsel should be promptly filed with the Hearing Officer if counsel is contemplated. Timely filing of written appearance by counsel may be considered in the granting of continuances.

Dated at Indianapolis, Indiana, this 3 day of April, 1984.


Earl A. Bohner
Technical Secretary

Enclosure

cc: Office of the Attorney General
Attention: Ms. Deborah Albright
Mr. Ron Mustard, Region V, U.S. EPA ✓
Hearing Officer
Lake County Health Department
Ronald G. Blankenbaker, M.D.
Mr. Ralph C. Pickard

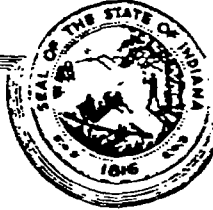
SUMMARY
Request for Hearing
U.S.S. Lead Refinery, Inc.
East Chicago, Indiana
IN 0032425

U.S.S. Lead Refinery, Inc., in East Chicago, was issued an NPDES Permit No. IN 0032425 on June 10, 1975. The permit has since expired, but staff has continued to treat it as the effective permit until a new permit is reissued. The Company is a recycler of lead from batteries. Among the various limitations specified in the permit is a limit of 0.2 mg/l total lead to be measured by daily composite samples of the discharges into the Grand Calumet River. The Company's Discharge Monitoring Reports submitted under the requirements of the NPDES permit show that U.S.S. Lead Refinery consistently is in violation of the total lead limit and furthermore is only sampling one time per week using a grab sample.

A January 25, 1984, inspection by staff indicates that all process and sanitary wastewater is discharged into the city sewers. It is run-off from the property that leaches lead contamination from the years of operations at this site and discharges into the river. A Company official told staff during the inspection that paving of the outside battery storage area is being considered for this up-and-coming spring season. Staff is concerned that this paving actually be accomplished with proper drainage and curbing to collect the run-off so it can be treated prior to release to a receiving stream. Staff requests that the Board appoint a Hearing Officer to conduct a Hearing into the matter of violations of Indiana Regulation 330 IAC 5 (failure to comply with terms of the NPDES Permit) by U.S.S. Lead Refinery, Inc.

MAStevens/jb
3/20/84

STATE OF INDIANA



INDIANAPOLIS 46206-1964

STREAM POLLUTION CONTROL BOARD

1330 West Michigan Street
P. O. Box 1964

VIA CERTIFIED MAIL

STATE OF INDIANA)

) SS:

COUNTY OF MARION)

BEFORE THE STREAM POLLUTION CONTROL
BOARD OF THE STATE OF INDIANA

IN THE MATTER OF THE)
STREAM POLLUTION CONTROL)
BOARD OF THE STATE OF INDIANA)
Petitioner)

vs.)

CAUSE NO. B-891

U.S.S. LEAD REFINERY, INC.)
Respondent)

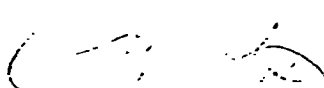
NOTICE OF CONTINUANCE

TO: Mr. Robert N. Steinwurtzel
Brown, Roady, Bonvillian & Gold
Suite 300
1300 Nineteenth Street, N.W.
Washington, D.C. 20036

Please be notified that the Prehearing Conference in the above matter set for the 27th day of April, 1984, has been continued and is reset for the 24th day of May, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building.

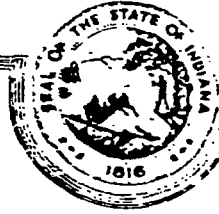
The Hearing date scheduled for the 24th day of May, 1984, has been continued and is reset for the 22nd day of June, 1984, at 9:30 a.m., E.S.T., in Room 336, Indiana State Board of Health Building, 1330 West Michigan Street, Indianapolis, Indiana. You are referred to the Notice of Hearing filed in this Cause for the issues upon which evidence may be heard at that time.

Dated at Indianapolis, Indiana, this 23 day of April, 1984.


James M. Garrettsen, Hearing Officer

cc: Office of the Attorney General
Attention: Kenneth M. Wahnsiedler
Mr. Ron Mustard, U.S. EPA, Region V
Lake County Health Department
Mr. Ronald E. Golden, U.S.S. Lead Refinery, Inc.
Ronald G. Blankenbaker, M.D.
Mr. Ralph C. Pickard

STATE OF INDIANA



INDIANAPOLIS 46206-1964

STREAM POLLUTION CONTROL BOARD

1330 West Michigan Street
P. O. Box 1964

VIA CERTIFIED MAIL

STATE OF INDIANA)

) SS:

COUNTY OF MARION)

BEFORE THE STREAM POLLUTION CONTROL
BOARD OF THE STATE OF INDIANA

IN THE MATTER OF THE)
STREAM POLLUTION CONTROL)
BOARD OF THE STATE OF INDIANA)
Petitioner)

vs.)

CAUSE NO. B-891

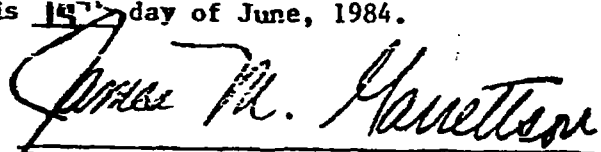
U.S.S. LEAD REFINERY, INC.)
Respondent)

NOTICE OF CONTINUANCE

TO: Mr. Robert N. Steinwurtzel
Brown, Roady, Bonvillian & Gold
Suite 300
1300 Nineteenth Street, N.W.
Washington, D.C. 20036

Please be notified that the Hearing in the above matter set for the
28th day of June, 1984, has been continued indefinitely.

Dated at Indianapolis, Indiana, this 14th day of June, 1984.


James M. Garrettson, Hearing Officer

cc: Office of the Attorney General
Attention: Kenneth M. Wahnsiedler
Mr. Ron Mustard, U.S. EPA, Region 7
Lake County Health Department
Ronald G. Blankenbaker, M.D.
Mr. Ralph C. Pickard